SUMMARY REPORT
TIME CRITICAL RESIDENTIAL INDOOR ENVIRONMENTAL SAMPLING
ALISO CANYON NATURAL GAS INCIDENT
PORTER RANCH COMMUNITY
LOS ANGELES, CALIFORNIA

Prepared for:

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH

5050 Commerce Dr.
Baldwin Park, CA 91706

Prepared by:

LEIGHTON CONSULTING, INC.
17781 Cowan
Irvine, CA, 92614

Project No. 603287.048

May 13, 2016

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A LEIGHTON GROUP COMPANY

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1.0 INTRODUCTION AND BACKGROUND

1.1 Introduction

Leighton Consulting, Inc. (Leighton Consulting) was requested by the County of Los Angeles Department of Public Health (Public Health) to complete a Time Critical Indoor Environmental Sampling Assessment (the assessment) of a select group of residences located within the Porter Ranch Community of Los Angeles County, California (Site). The Porter Ranch Community is located north of California State Highway 118, in unincorporated area of Los Angeles County, California.

The purpose of this assessment was twofold:

1) Identify potential contaminants in the indoor environment that may be associated with the gas leak.

2) Determine whether or not contaminants from the sealed well pose a health risk to communities near Aliso Canyon.

1.2 Background

The Aliso Canyon natural gas leak at Well SS-25 was an unprecedented event lasting several months, releasing over 100,000 metric tons of methane and affecting the health and safety of thousands of residents in the nearby Porter Ranch community. This event is now considered the largest natural gas leak in U. S. history. Well SS-25 was officially sealed on February 18, 2016.

Since the beginning of the natural gas leak from oil and gas Well SS-25 in October 2015, the Los Angeles Department of Public Health (Public Health) and other local and State agencies have been actively monitoring and/or assessing the environmental and health concerns related to the incident. During the 16-week period of October 28, 2015 to February 18, 2016, Public Health received approximately 700 health complaints associated with the gas leak. In the two-week period of February 18 to March 3, 2016, Public Health received 150 health complaints from residents upon returning to their homes after the leak from Well SS-25 was officially sealed.

Between March 10 and 12, 2016, Public Health and the California Department of Public Health (CDPH) conducted a door-to-door health assessment referred to

as a CASPER, or “Community Assessment for Public Health Emergency Response” to more broadly investigate the nature of health complaints within the Porter Ranch community. CASPER is an open source epidemiologic health assessment tool prepared by the Centers for Disease Control and Prevention (CDC) to rapidly collect household-based health information about the health status and basic needs of an affected community from an environmental incident.

During the month after the gas leak was sealed, 63% of sampled households reported health symptoms believed to be related to the leak. This means about 4,800 households in the surrounding communities may be experiencing symptoms after the well was sealed. These findings indicate only a modest improvement from 81% of sampled households reporting any symptoms during the gas leak from October 23, 2015 – February 11, 2016. Several weeks after sealing well SS-25, the majority of households in the community had at least one household member experiencing illness.

The most commonly reported symptoms were eye, nose, and/or throat irritation (59%), headache/migraine (52%), and respiratory symptoms (51%). These symptoms were also the most commonly reported during the leak. Other symptoms, by decreasing frequency, included nausea/vomiting, dizziness/light headedness, skin rash/irritated skin, and nosebleeds. Reports for each symptom decreased between the time period of the leak, and the time after the well was sealed. After the well was sealed, 61% of households with symptoms believed to be related to the gas leak sought medical care, primarily in family medical provider and urgent care settings.

During the month after the well was sealed, 41% of sampled households reported smelling “gas-like” odors: 26% inside their home, 44% outside their home or in the neighborhood, and 31% both inside and outside. About 40% of households reported the appearance of an oily residue on outdoor surfaces at home or in the neighborhood since the leak. Please refer to the following: (http://www.publichealth.lacounty.gov/media/docs/assessment.pdf).

A map was created of the received health complaints by Public Health, and the highest concentrations of reported symptoms appears to correlate with the location of the residences closest to and immediately downwind of Well SS-25 at the Aliso Canyon Facility. This map is included as Figure 1.

In response to residents reporting continued health concerns, Public Health determined that a comprehensive indoor sampling strategy was necessary to evaluate whether contaminants can be directly or indirectly associated with the release of substances into the Porter Ranch Community from the Aliso Canyon Facility Well SS-25 gas leak. Under the direction of Public Health, and in consultation with agencies such as the County of Los Angeles Department of Public Works (LACDPW), California Department of Public Health (DPH), California Environmental Protection Agency Air Resources Board (CARB), South Coast Air Quality Management District (SCAQMD), U.S. Environmental Protection Agency (USEPA), California Environmental Protection Agency (Cal EPA), California Office of Environmental Health Hazard Assessment (OEHHA), and the Los Angeles County Fire Health Hazmat Division (LACFHHD), a *Time Critical Residential Indoor Environmental Sampling Workplan* was prepared describing the sampling activities to be conducted within the Porter Ranch residences, dated March 24, 2016 (Leighton Consulting, 2016a). The results of the laboratory analyses are summarized in the tables included in Appendix A. References are included in Appendix B.

This report summarizes the field and laboratory procedures implemented to complete the indoor environmental assessment, along with tables summarizing laboratory results and providing comparison data for select chemicals of concern.

2.0 PRE-FIELD ACTIVITIES

The following sections describe activities conducted in preparation for field mobilization.

2.1 Workplan Preparation

In accordance with instructions from Public Health, a *Time Critical Residential Indoor Environmental Sampling Workplan* was prepared describing sampling procedures and protocols to be conducted. In consultation with the partner agencies listed above in section 1.2, Public Health finalized the workplan on March 24, 2016.

2.2 Health and Safety Plan

In accordance with standard environmental procedures, a project specific Health and Safety Plan (HSP) was prepared describing safety aspects of the work to be performed at the site in general compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120 and California Code of Regulations 5192. The HSP was reviewed and signed by a Certified Industrial Hygienist (CIH). The HSP was kept onsite during the field investigation and a health and safety meeting was held daily prior to initiating fieldwork.

3.0 SAMPLING PROTOCOLS AND LABORATORY ANALYSES

Natural gas released during the Aliso Canyon event consisted of >92% methane. It is postulated that other chemicals potentially of oil or gas field origin may have been entrained during the release and/or sealing of Well SS-25 at the Aliso Canyon Facility which could have migrated through the air into the residences of the Porter Ranch Community. Sampling of the indoor air and surfaces of the residences is appropriate to determine if chemicals of concern are present that are related to the natural gas leak and are at levels that could be indicative of a health risk to residents.

The indoor environmental sampling activities presented herein were conducted during the months of March and April, 2016. Access to the individual properties for the purpose of sampling was coordinated by Public Health. The sample set consisted of 114 residences including 103 within the Porter Ranch Community, and 11 residences located approximately 6 miles southeast of the Well SS-25 to serve as a comparison group. Additionally, samples were also obtained from nearby Porter Ranch Community School and Castlebay Lane Elementary School. The sampling consisted of the collection of select samples of the following media:

- Wipe and contact (Biotape™ or similar) samples obtained from indoor surfaces to assess the character and composition of particulates that may be present in the residences and the schools. Wipe samples were assessed for the presence of metals, total hydrocarbons, and semi-volatile organic compounds (SVOCs);

- Indoor filter cartridge air samples to assess the character and composition of particulates (metals and total dust) that may be present in breathing zone within the residences and the schools;

- Indoor air samples to assess the presence of volatile organic compounds (VOCs), SVOCs, and sulfur compounds within the residences and the school location.

Representative photographs of field sampling procedures are included in Appendix C.

3.1 Indoor Surface Particulate Sampling

Surface particulate sampling was performed using two different techniques; i.e., wipe and contact sampling methods for the purpose of determining the physical character/ratio of the particulate (e.g., carbon, cellulose, biogenic, etc.). Wipe and contact (Biotape™ or similar) samples were collected from a single representative horizontal surface at each residence. Five sample locations were

selected at each school and consisted of 3 classroom locations and 2 common areas (nearby surfaces of the same areas of each school were sampled on two separate occasions). Eleven comparison group residences were sampled. Sampling locations included hard flooring, counter tops, and/or window sills. Preference for sampling location was north facing, dusty areas where particulates may have accumulated.

Only smooth, impervious surfaces, such as glass, enameled or laminated surfaces, coated surfaces, and vinyl or ceramic floors were sampled using wipe and contact sampling protocols. Wipe sampling protocols are not applicable for surfaces with porous or non-impervious media (e.g., concrete, wood, asphalt, plasterboard), because long-term accumulation of and penetration of contaminants into the matrix may occur and all particulate may not be retrievable.

The sampling sequence and media used in the field are summarized in the following table.

Sequence of Sampling	Media
Hydrocarbons	Charcoal Disk
Metals	Ghost Wipe
SVOCs	Gauze Wipe
Microscopic particle identification	Biotape
Hydrocarbon Fingerprint	Alcohol Wipes (5)

A chain of custody (COC) form was completed for each home which noted information such as: the name of the field staff conducting the sampling procedures, sample locations, sample identification names, and sampling information or other observations. A unique identification was assigned to each sample.

3.2 Ghost Wipe, Gauze Wipe, Charcoal Disk Wipe Sampling Procedures

Ghost wipe, gauze wipe, and charcoal disk wipe samples were collected over a 100 cm^2 surface area using laboratory provided wipes and individual disposable 100 cm^2 paper templates. Separate templates were used for each discreet sample location and sample templates were disposed of after each use. The wipe samples were obtained by swiping horizontally back and forth, top to bottom

and vertically up and down, left to right to collect each sample using the following sampling methodology:

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.
2. The disposable 100 cm^2 template was placed over the surface area to be sampled, and the outside edges were secured.
3. The laboratory prepared wipe (or gauze pad) was removed from its container and unfolded.
4. The wipes were re-folded into fourths, and the surface area was wiped with firm pressure. An overlapping "S" wiping pattern described above to was implemented to cover the entire surface area with horizontal strokes.
5. The exposed side of the wipe was folded in, and the same area was wiped using five (5) vertical "S" strokes.
6. The wipe was unfolded to reveal an unexposed surface, and the surface was wiped a third time as described in Item 4. Note: Charcoal disks were not folded.
7. After sampling, the wipes were placed sample in a clean sample jar. The jar was sealed securely and individually labelled showing the discrete sample identification information.
8. The gloves used for sampling were discarded in a durable, sealable bag, such as a Ziploc® bag.

Ghost wipe, gauze wipe, charcoal disk wipe samples were transferred to boxes in preparation of overnight delivery to the respective laboratory for analysis further described later in this section. Field blanks were collected at a rate of approximately ten percent of the total number of samples collected.

3.3 Alcohol Wipe Sampling Procedures

Alcohol wipe samples were collected from the same horizontal surface directly adjacent to the location of the ghost wipe, gauze wipe, and charcoal disk wipe samples. The sample area measured approximately 100 – 200 $cm^{2.}$ Sampling procedures are described below.

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.

2. The wipe samples were removed from their packaging and the area was wiped in a similar manner as the ghost, gauze and charcoal samples. Five wipes were used at each sample location.

3. After sampling, the wipe samples were placed in a clean Ziploc® bag, and sealed securely. The Ziploc® bag was labeled and placed in a cooler for storage at 4°C in preparation of transportation to Dr. Michael Jerrett at the University of California at Los Angeles (UCLA) for analysis as determined to be needed.

4. The gloves used for sampling were discarded in a durable, sealable bag, such as a Ziploc® bag.

3.4 Contact Sampling Procedures – Biotape®

Contact samples were collected from locations adjacent to the locations where the other wipe samples described above were obtained using the procedures outlined below.

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.

2. The sample identification was inscribed on the manufacturers provided slide cartridge.

3. The Biotape™ slide was removed from the provided slide cartridge.

4. The sample location was documented on the slide label.

5. The protective liner was removed from the slide to expose adhesive. The liner was discarded and not replaced on the slide after sampling.

6. The slide was placed with the adhesive side down on the surface to be sampled, using the centering line to orient the adhesive over the exact sample location desired.

7. The slide was gently pressed down to ensure contact was made.

8. The slide was carefully removed from the surface and placed back into the original manufacturers slide cartridge. The slides were stored in boxes for shipment to Environmental Analysis Associates, Inc. for analysis.

9. The gloves used for sampling were discarded in a durable, sealable bag, such as a Ziploc® bag.

Field blanks were collected at a rate of approximately ten percent of the total number of samples collected.

3.5 Particulate Sampling Laboratory Analysis

A summary of applicable laboratory methodologies utilized on contact and wipe samples is included in the table below.

Type	Media	Area	Chemical Category	Test Method	Hold Time
Wipe	Lab prepared ('ghost wipe')	100 sq. cm	Metals	NIOSH 9102/7300 by ICP/MS	180 days
Wipe	3M 3500 Carbon Filter	100 sq. cm	Hydrocarbons	NIOSH 1500 by GC/MS	14 days
Wipe	Lab prepared	100 sq. cm	SVOCs	EPA Method 8270	14 days
Contact/Tape	ZEFON – Biotape™ Surface sampler	Direct/Point	Physical Character	Optical Micro	Indefinite
Wipe	Alcohol wipes	As applicable	Petroleum Hydrocarbons	GC/MS Qualitative fingerprinting	90 days

Following the sampling, the samples were containerized/sealed as appropriate per the lab or methods specifications, labeled with a sample point identification number, stored for shipment in compliance with the test method and laboratory standards, and logged on a chain of custody (COC). Samples and the COCs were delivered to the appropriate laboratories each day. Rush turnaround time were requested in all cases to receive the laboratory results as early as possible.

3.6 Indoor Air Sampling Locations/Pre Sampling

Indoor air samples were collected from the same Porter Ranch and comparison group residences as the wipe samples described above, as accessible. A small group of residences where wipe sampling was conducted opted to not continue with some or all of the air testing. Air samples were collected from ten comparison group residences with the exception that sorbent tubes were collected from eight comparison group residences. At least two of the five school wipe locations from each school were also utilized for air sampling. Sampling procedures were carried out in a similar manner for each residence as further described below. Sampling was intended to be representative of typical indoor environmental conditions of each home. Field personnel were required to wear shoe coverings and powder free disposable nitrile gloves during sampling activities.

A COC sheet was completed for each home that noted the name of the field staff conduction the sampling procedures, sample locations, sample identification names, and relative sampling information or other observations.

Indoor air sampling was performed using summa canisters, Tedlar® bags, sorbent tubes, vacuum pumps, and particulate cartridges. A unique identification was assigned to each sample. Specific sampling equipment, and sampling methodologies and laboratory test methods are described in more detail in the following sections.

3.7 Air Sampling Procedures

Upon entering the residence, the Air Handling Unit (AHU) fan was operated continuously for a minimum of ten minutes to circulate the indoor air and to re-suspend any settled particulate that may be within the AHU system and/or home. Indoor air samples were collected from one central location within each residence located in the downstairs living area within the breathing zone at an approximate height of between 2 and 6 feet above the floor surface.

The sample containers/media consisted of laboratory provided 6-liter summa canisters, a 1-liter Tedlar® bag, sampling pumps affixed to a sorbent tubes, and additional sampling pumps affixed to a pre-weighed 37mm diameter Poly-vinyl Chloride (PVC) filter cartridges.

The detection limits achievable for the sorbent tubes and the particulate filters

are dependent upon the actual duration that a specific volume of air is pumped through the sample media. Generally, the greater the volume of air pumped the lower the detection limit. The sample duration was selected to achieve low detection limits and be representative of diurnal barometric fluctuations that may affect air density and air flow rates over a 24 hour period. The air flow rate and duration of collection, the chemical categories and test methods, and the hold time for each sample container type is summarized as follows:

Container	Flow Rate	Collection Period	Chemical Category	Test Method	Hold Time
6-Liter Summa Canister, batch certified	Flow controller set at a rate of 3.5 ml/minute	24-hours	VOCs	TO-15 Low Level	30 days
Sorbent Tube	Pump set at a rate of 4.7 liters/minute	24-hours	SVOCs	TO-13A	7 days to extraction; 30 days to analysis
PVC Cartridge with Pre-weighed filter	Pump set at a rate of 2.0 liters/minute	24-hours	Particulates and Metals	NIOSH 0500/7300 by ICP/MS	180 days
Tedlar bag	Lung sampler or vapor sampling box, variable pump rate acceptable	Grab sample	Sulfur Compounds	ASTM D5504-12	24 hours

The schools were sampled over an 8-hour period during typical classroom hours versus over a full 24-hour period.

Indoor air sampling took place over a period of approximately 2 weeks. Each day, several field teams would mobilize to the sampling locations. Some teams would focus on setting up sampling equipment in homes to be tested and leave the equipment in the homes for 24 hours to be picked up the next day. Other teams focused on sample pickup of the completed samples and delivery to the various laboratories for analysis.

The methodologies utilized for collecting samples for each type of container/media are described below.

3.8 Sorbent Tubes –SVOCs, TO-13A

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.
2. The Gastec® gas pump was set on the floor. Hard surfaces only were utilized (not on carpet).
3. The pump was connected to an outlet within the home to supply power.
4. Tubing was connected to the pump and attached to a tri-pod extending into the breathing zone (2-6 feet above floor).
5. The sorbent tube was connected to the end of the tubing in the breathing zone.
6. The flow rate was set to 4.7 Liters per minute (L/m) for 24 hours.
7. The pump was started to initiate the 24-hour analysis.
8. Once sampling was completed (the following day), the end flow rate was noted and the total volume collected was calculated. The sorbent tube was placed in aluminum foil, placed in a Ziplock® bag, labeled with sample ID, and placed in a cooler at 4°C in preparation for transportation to the laboratory for analysis further described later in this section. Field duplicates and field blanks were collected at a rate of approximately ten percent of the total number of samples collected.

3.9 PVC Cartridge with Pre-Weighed Filter, Particulates NIOSH 500, Compatible Metals NIOSH 7300

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.
2. The Gilian pump was set on a table or other flat surface in the breathing zone (2-6 feet above floor).
3. The pump was connected to an outlet within the home to supply power.

4. Tubing was connected to the pump and the PVC cartridge with the pre-weighed filter was connected to the end of the tubing in the breathing zone.

5. The flow rate was set to 2.0 L/m for 24 hours.

6. The pump was started to initiate the 24-hour analysis.

7. Once sampling was completed (the following day), the end flow rate was noted and the total volume collected was calculated. The PVC cartridge and filter were placed in a Ziplock® bag, labeled with sample ID, and placed in a box for preparation for transportation to the laboratory for analysis. Field duplicates and field blanks were collected at a rate of approximately ten percent of the total number of samples collected.

3.10 Tedlar Bag, Sulphur Compounds ASTM D5504-12

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.

2. The sample box and pump were placed on a table or other flat surface in the breathing zone (2-6 feet above floor).

3. The Tedlar bag was labeled with the sample ID.

4. The Tedlar bag was connected to the tubing inside the sample box and the box was closed and latched.

5. The pump was turned on and the Tedlar bag was filled to approximately 2/3 of its capacity, usually less than 1 minute.

6. The Tedlar Bags were transferred to black trash bags and kept out of sunlight prior to transportation to the laboratory for analysis. Field duplicates were collected at a rate of approximately ten percent of the total number of samples collected.

3.11 Summa Canister – 6Liter, VOCs, TO-15

1. The sampler put on a pair of clean disposable, powder-free nitrile gloves.

2. The Summa Canister was placed on a table or other flat surface in the breathing zone on undyed paper to protect the surface.

3. The 24 hour flow controller (manifold) was connected to the Summa Canister and turned on, watching to make sure no noticeable vacuum drop was observed for approximately 10 minutes. Ten of the interior samples and one exterior sample were collected as grab samples for reasons such as canister or manifold malfunction or accessibility issue (three additional interior samples were noted by the laboratory to have had an end vacuum that could potentially indicate a sampling period less than 24-hours).

4. Once the sampling was completed (the next day), the end vacuum was noted and the summa canisters was turned to the closed position. Three of the interior samples were noted to have had zero or less The manifold was removed and the Summa Canisters were collected and stored in a cool place prior to transportation to the laboratory for analysis. Field duplicates were collected at a rate of approximately ten percent of the total number of samples collected.

3.12 Outdoor Air Sampling

At least one randomly selected outdoor sample was collected each day for each air media for comparison to the indoor air sampling results. The procedures for collection of the outdoor air samples were the same as the indoor air samples.

3.13 Air Sampling Laboratory Analysis

Following the set sampling period, the sample containers/media were stored for shipment in compliance with the test method and laboratory standards, logged on a COC, and submitted to a laboratory for chemical analysis at the end of each day. The analytical laboratories were instructed to note analytes that are detected below the reporting limit but above the method detection limit (i.e. a J-Flag reported quantity). The analytical laboratories were instructed to note tentatively identified compounds (TICs), analytes for which the laboratory instruments are not calibrated but are identified by comparison to a NIST Mass Spectral library. Unknown peaks greater than ten percent of the internal standard height are identified and an estimated concentration calculated by comparing to the internal standard. Rush turnaround times were requested on all samples to receive the laboratory results as early as possible. Rush turnaround times were requested on all samples to receive the laboratory results as early as possible.

The laboratory analysis was summarized previously in Section 3.7. Eight PVC Cartridges were collected from randomly selected hours and archived for possible later analysis, as determined necessary. The eight samples were subsequently analyzed by NIOSH 7500 for crystalline silica.

3.14 Source Attribution Sampling

In addition to indoor environmental sampling, with the authorization of the Aliso Canyon Facility, source attribution sampling was conducted to characterize materials deposited near Well SS-25. Under the direction of Public Health, a workplan was prepared describing the sampling activities to be conducted (Leighton Consulting, 2016b). Samples were obtained on April 20, 2016, from both upwind and downwind in the area immediately surrounding Well SS-25 to assist investigators in determining whether or not concentrations of chemical compounds and/or particulate matter measured in indoor air or on indoor surfaces are associated with the Well SS-25 gas leak. The samples consisted of both surficial soils and particulates, including contact tape samples, from various surfaces as well as from the area immediately upwind at Well SS-1.

4.0 RESULTS AND PRINCIPAL FINDINGS

Tables summarizing the laboratory analytical results are included as Tables 1 through 8, attached as Appendix B. Researchers from UCLA and UC Berkley summarized the analytical data and the results are summarized in Tables A and B, attached as Appendix A. In should be noted that TICs have not been evaluated at this time. The results of additional evaluation will be provided upon completion as an amendment to this or the primary Public Health report. The laboratory reports of the analyses completed during this environmental sampling assessment are included as Appendix D.

4.1 Statistical Evaluation

The statistical evaluation conducted by the UCLA and UC Berkley researchers identified analytes that were detected in at least 5% of the Porter Ranch community residences and schools sampled for both wipe and air samples. Field blanks and exterior samples were excluded from the analysis. Duplicate samples were included in the analysis utilizing the higher of the analyte detections between the sample and duplicate values. In instances where multiple samples were collected at a location, the highest detected analyte concentration was utilized. Analytes that were not detected above the laboratory method detection limit were analyzed at half of the laboratory reporting limit for the purpose of this statistical evaluation. Results that were J-flagged as estimated concentrations were utilized. The arithmetic mean concentration was determined from the data set and was compared with the mean concentration of the control group.

4.2 Wipe Sample Results

Complete wipe sample results are summarized on Tables 1 and 2. Table A summarizes wipe sample results for analytes that were detected in 5% or more of the sampled residences. Based upon the results shown in Table A, 8 of the 9 analytes detected were found at higher concentrations in the Porter Ranch residences than at the comparison residences.

Seven of the 8 analytes that were greater in the Porter Ranch area samples as compared to the comparison group were either 10x the mean of that detected in the comparison group or not detected in the comparison group at all and include the following: aluminum, barium, iron, manganese, nickel, total hydrocarbons, and vanadium.

4.3 Air Sample Results

Complete air sample results are summarized on Tables 3 through 6. Table B summarizes air sample results for analytes that were detected in 5% or more of the Porter Ranch area samples and compares the arithmetic mean concentration to that of the comparison group. Based upon the results shown in Table B, 17 of the 58 analytes detected were found at higher concentrations in the Porter Ranch residences than at the comparison residences.

Ten of the 17 analytes that were greater in the Porter Ranch area samples as compared to the comparison group were either 10x the mean of that detected in the comparison group or not detected in the comparison group at all and include the following: 1,1-difluoroethane, acetone, acetonitrile, di-n-butylphthalate, diethylphthalate, dimethylphthalate, isophorone, isopropylbenzene (cumene), phenanthrene, and phenol.

4.4 Biotape™, Archive, and Well SS-25 Area Sampling Results

The Biotape™ samples were still being evaluated (optical microscopy) at the time this report was completed. The results of the evaluation will be provided upon completion as an amendment to this report.

The archive PVC filter samples were analyzed for crystalline silica and the results are summarized in Table 7. Crystalline silica as quartz, cristobalite, and tridymite were not detected above the laboratory detection limits.

Well SS-25 area soil and product samples are summarized in Table 8. Public Health and collaborators are evaluating the samples with respect to source attribution and preliminary principal findings are discussed in the primary report.

5.0 DATA VALIDATION

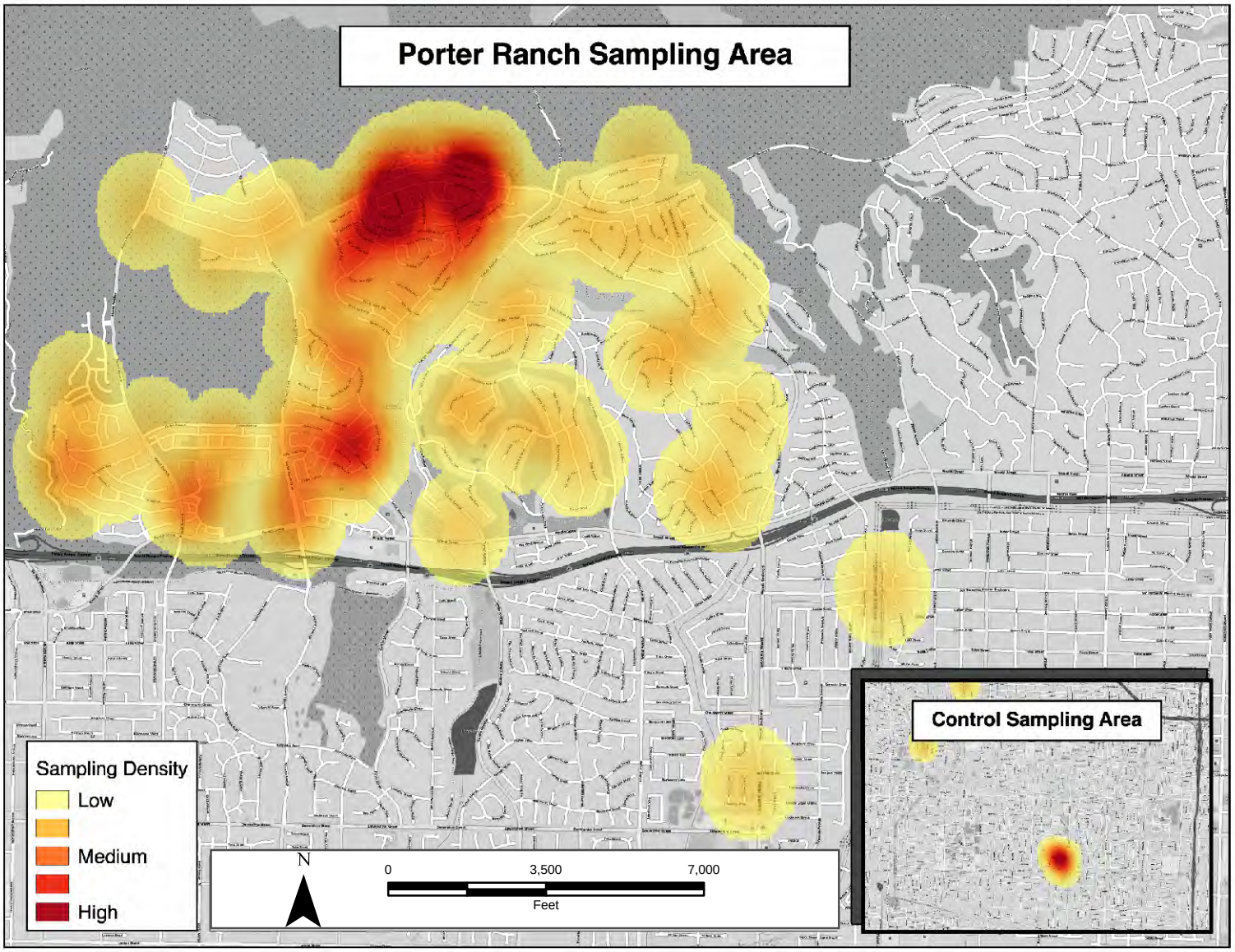
Data generated from the subject properties will be validated under USEPA Level II guidelines. Qualifiers indicating the usability of data will be attached to results as appropriate. Data validation will be completed for TICs prior to further analysis and comparison of results for those compounds. Data Validation is currently in process and will be provided upon completion as an amendment to this report.

6.0 REFERENCES

County of Los Angeles Public Health, 2016, Aliso Canyon Gas Leak, CASPER Initial Findings, dated April 8, 2016.

Leighton Consulting, Inc., 2016a, Time Critical Residential Indoor Environmental Sampling Workplan, Aliso Canyon Natural Gas Incident, Porter Ranch Community, Los Angeles, California, dated March 24, 2016.

Leighton Consulting, Inc., 2016b, Well SS-25 Source Attribution Soil and Particulate Sampling Plan, Aliso Canyon Natural Gas Incident, Porter Ranch Community, Los Angeles, California, dated April 20, 2016.



Project: 603287.048	Eng/Geol:
1 " = 3,500 '	Date: May 2016

Base Map: Los Angeles County Public Health
Thematic Information: Leighton
Author: Leighton Geomatics (asakowicz)

INDOOR ENVIRONMENTAL SAMPLING AREA MAP

Aliso Canyon Natural Gas Incident
Los Angeles, California

Figure 1

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Map Saved as V:\Drafting\603287\048\Maps\603287_048_F01_IESA_2016_05_11.mxd on 5/13/2016 12:21:21 PM

APPENDIX A

Tables Comparing Porter Ranch Community Results to Comparison Group Results

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Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	**2.7**	< 2.5	< 2.5	**2.7**	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	< 0.050	**0.23**	< 0.050	< 0.050	**0.061**	**0.063**
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	**0.062**	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	**0.23**	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	**4.4**	< 2.5	< 2.5	**6.2**	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	**0.083**	< 0.050	< 0.050	**0.11**	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	**0.018**	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	**0.055**	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**13**
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.27**
Barium	< 0.050	< 0.050	< 0.050	< 0.050	**0.072**	< 0.050	**0.50**
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.18**
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**31**
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.39**
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	**0.11**
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.13**
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	**0.055**
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	< 0.050	**0.054**	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	**0.62**	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	**0.78**	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	**0.46**	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	**0.28**	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	< 0.050	**0.082**	< 0.050	< 0.050	**0.076**	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	**3.2**	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	**0.078**	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	**0.018**	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	**0.059**	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	**0.56**	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370958	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/28/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10
Barium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.05	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.05	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.2	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	**2.8**	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.05	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.05	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	**16**	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	< 0.050	< 0.050	< 0.050	**0.25**	**0.082**	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	**0.016**	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	**36**	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	**0.61**	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	**0.033**	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	**0.087**	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	**0.069**	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**7.3**
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	**0.096**	< 0.050	< 0.050	**0.076**	< 0.050	**0.20**
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	**3.3**	< 2.5	< 2.5	**3.3**	< 2.5	**14**
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	**0.062**	< 0.050	< 0.050	**0.068**	< 0.050	**0.31**
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	**0.017**
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.072**
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	**0.033**
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	**5.1**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	**0.12**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	**0.11**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	**12**	**4.2**	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	**0.23**	**0.071**	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	**0.024**	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	**17**	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	**0.069**	< 0.050	**0.29**	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	**0.017**	< 0.015	< 0.015	< 0.015	**0.018**
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	**5.5**	< 2.5	**39**	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	**0.058**	< 0.050	**0.65**	< 0.050	**0.054**	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	**0.041**	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	**0.10**	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	**0.074**	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	**2.7**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	**1.8**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Barium	< 0.050	**0.27**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370958	L370751	L370751	L370751	L370751
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/28/2016	3/25/2016	3/25/2016	3/25/2016	3/25/2016
METALS							
Aluminum	**5.0**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Barium	**0.25**	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cadmium	**0.019**	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.2	**2.3**	< 0.20	< 0.20	< 0.20
Iron	**10**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Manganese	**0.22**	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	**0.019**	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	**0.082**	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050
Thallium	< 0.50	< 0.50	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50
Vanadium	**0.024**	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370958	L370958	L370958	L370958
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/28/2016	3/28/2016	3/28/2016	3/28/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1
Barium	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1
Manganese	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.4	<0.4	<0.4	<0.4
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370958	L370958	L371657	L371933	L371933	L371933	L370958
Location	Residence	Residence	Residence	Residence	Residence	Residence	School
Date Sampled	3/28/2016	3/28/2016	4/5/2016	4/7/2016	4/7/2016	4/7/2016	3/28/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Barium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Manganese	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.4	<0.4	**0.95**	**1.3**	<0.4	<0.4	<0.4
Isopropyl Alcohol^T	ND	ND	**1.6**	**2.6**	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370958	L370958	L370958	L370958	L373191	L373191	L373191
Location	School	School	School	School	School	School	School
Date Sampled	3/28/2016	3/28/2016	3/28/2016	3/28/2016	4/20/2016	4/20/2016	4/20/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Barium	**0.068**	< 0.05	< 0.05	**0.1**	< 0.05	< 0.05	< 0.05
Beryllium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Iron	**3.1**	< 2.5	< 2.5	**3.9**	< 2.5	< 2.5	< 2.5
Lead	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Manganese	< 0.05	< 0.05	< 0.05	**0.079**	< 0.05	< 0.05	< 0.05
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	**0.034**	< 0.015	< 0.015	< 0.015
Strontium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.4	<0.4	<0.4	<0.4	**8**	**7.6**	**15**
Isopropyl Alcohol^T	ND	ND	ND	ND	**16**	**15**	**31**
Acetone^T	ND	ND	ND	ND	**0.16**	**0.17**	**0.24**

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L373191	L373191	L370958	L370958	L370958	L370958	L370958
Location	School	School	School	School	School	School	School
Date Sampled	4/20/2016	4/20/2016	3/28/2016	3/28/2016	3/28/2016	3/28/2016	3/28/2016
METALS							
Aluminum	**3.4**	< 2.5	**15**	**8.6**	< 2.5	**35**	**18**
Antimony	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.62**
Barium	**0.11**	< 0.05	**0.52**	**0.22**	< 0.05	**1**	**0.51**
Beryllium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.05	< 0.05	< 0.05	**0.059**	< 0.05	**0.077**	< 0.05
Cobalt	< 0.015	< 0.015	**0.02**	< 0.015	< 0.015	**0.04**	**0.025**
Copper	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**0.36**	< 0.2
Iron	**7.5**	< 2.5	**32**	**18**	< 2.5	**66**	**35**
Lead	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.13**	< 0.1
Manganese	**0.14**	< 0.05	**0.87**	**0.46**	< 0.05	**1.6**	**0.88**
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	**0.018**	< 0.015	**0.054**	**0.055**	< 0.015	**0.11**	**0.056**
Strontium	< 0.05	< 0.05	**0.22**	**0.12**	< 0.05	**0.55**	**0.32**
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	**0.023**	< 0.015	**0.09**	**0.06**	< 0.015	**0.16**	**0.086**
TOTAL HYDROCARBONS							
Total Hydrocarbons	**5.7**	**28**	<0.4	<0.4	<0.4	<0.4	<0.4
Isopropyl Alcohol^T	**11**	**55**	ND	ND	ND	ND	ND
Acetone^T	ND	**0.47**	ND	ND	ND	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L373191	L373191	L373191	L373191	L373191	L370751	L370751
Location	School	School	School	School	School	Control	Control
Date Sampled	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	3/25/2016	3/25/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Antimony	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Barium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050
Beryllium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Manganese	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	**2.1**	**5.6**	**9.6**	**16**	**16**	<0.40	<0.40
Isopropyl Alcohol^T	**4**	**11**	**19**	**31**	**32**	ND	ND
Acetone^T	ND	ND	**0.15**	**0.27**	**0.3**	ND	ND

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370751	L370751	L370751	L370958	L370958	L370958	L370958
Location	Control	Control	Control	Control	Control	Control	Control
Date Sampled	3/25/2016	3/25/2016	3/25/2016	3/28/2016	3/28/2016	3/28/2016	3/28/2016
METALS							
Aluminum	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**3**	< 2.5
Antimony	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1
Barium	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	**0.051**	< 0.05
Beryllium	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Cadmium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Chromium	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Copper	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2
Iron	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Lead	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1
Manganese	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	**0.22**	< 0.05
Molybdenum	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Nickel	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Strontium	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	**0.2**	< 0.05
Thallium	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
TOTAL HYDROCARBONS							
Total Hydrocarbons	<0.40	<0.40	<0.40	<0.4	<0.4	<0.4	<0.4
Isopropyl Alcohol^T	ND	ND	ND	ND	ND	ND	ND
Acetone^T	ND	ND	ND	ND	ND	ND	ND

Notes:

T: Tentatively Identified Compounds (TIC), estimated value

ND: TIC not detected

Field Blanks not included on table

Table 1: Wipe Samples - Metals and Total Hydrocarbons

Analytical Method: NIOSH 7300 (metals) and 1500 (total hydrocarbons)

Units: micrograms per square centimeter (µg/cm^2)

Results file number	L370958	L371933
Location	Control	Control
Date Sampled	3/28/2016	4/7/2016
METALS		
Aluminum	< 2.5	< 2.5
Antimony	< 0.1	< 0.1
Barium	< 0.05	**0.054**
Beryllium	< 0.005	< 0.005
Cadmium	< 0.015	< 0.015
Chromium	< 0.05	< 0.05
Cobalt	< 0.015	< 0.015
Copper	< 0.2	< 0.2
Iron	< 2.5	< 2.5
Lead	< 0.1	< 0.1
Manganese	< 0.05	< 0.05
Molybdenum	< 0.025	< 0.025
Nickel	< 0.015	< 0.015
Strontium	< 0.05	< 0.05
Thallium	< 0.5	< 0.5
Vanadium	< 0.015	< 0.015
TOTAL HYDROCARBONS		
Total Hydrocarbons	<0.4	<0.4
Isopropyl Alcohol^T	ND	ND
Acetone^T	ND	ND

Notes: See Page 19 of 20

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031968	16031956	16031956	16031960	16031961	16031961
Location	Residence	Residence	Residence	Residence	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031968	16031956	16031956	16031960	16031961	16031961
Location	Residence	Residence	Residence	Residence	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	**.022 J**	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031970	16031944	16031965	16031958	16031962	16031969
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	3/25/2016	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	**.043 J**	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031970	16031944	16031965	16031958	16031962	16031969
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	3/25/2016	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031963	16031957	196031971	16031968	16031957	16031957
Location	Residence	Residence	Residence	Residence	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	**0.015 J**	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031963	16031957	196031971	16031968	16031957	16031957
Location	Residence	Residence	Residence	Residence	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031964	16031960	16031960	16031944	16031962	16031958
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	**0.011 J**	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031964	16031960	16031960	16031944	16031962	16031958
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.0094	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.017	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031969	16031969	16031965	16031963	196031971	196031971
Location	Residence	Residence	Residence	Blank	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	**0.17 J**	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031969	16031969	16031965	16031963	196031971	196031971
Location	Residence	Residence	Residence	Blank	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031968	16031954	16031956	16031958	16031958	16031962
Location	Residence	Residence	Residence	Residence	Blank	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031968	16031954	16031956	16031958	16031958	16031962
Location	Residence	Residence	Residence	Residence	Blank	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031962	16031964	16031963	16031961	16031965	16031944
Location	Blank	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031962	16031964	16031963	16031961	16031965	16031944
Location	Blank	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.0094	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.017	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031944	16031948	196031971	16031969	16031954	16031956
Location	Blank	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	**0.024 J**	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	**0.043 J**	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031944	16031948	196031971	16031969	16031954	16031956
Location	Blank	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.0094	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.017	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031947	16032133	16031951	16031964	16031946	16031965
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/29/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	**0.011 J**	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031947	16032133	16031951	16031964	16031946	16031965
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/29/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.0094	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.017	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031970	16031967	16031947	16031954	16031948	16031946
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031970	16031967	16031947	16031954	16031948	16031946
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.0094	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.017	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031959	16031959	16031945	16031955	16031958	16031968
Location	Residence	Blank	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	**0.078 J**	**0.050 J**	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031959	16031959	16031945	16031955	16031958	16031968
Location	Residence	Blank	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031950	16031954	16031947	16031951	16031959	16031955
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**	3/25/2016
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031950	16031954	16031947	16031951	16031959	16031955
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**	3/25/2016
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031958	16031950	16031952	16031954	16031970	16031947
Location	Residence	Residence	Blank	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	**0.083 J**	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031958	16031950	16031952	16031954	16031970	16031947
Location	Residence	Residence	Blank	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031951	16031955	16031945	16031948	16031950	16031950
Location	Residence	Residence	Residence	Residence	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031951	16031955	16031945	16031948	16031950	16031950
Location	Residence	Residence	Residence	Residence	Residence	Blank
Date Sampled	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031967	16031959	16031951	16031955	16031945	16031966
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	**0.014 J**	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031967	16031959	16031951	16031955	16031945	16031966
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031958	16031947	16031950	16031954	16031951	16031959
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	**0.54**	< 0.011	< 0.011	< 0.011	< 0.011	**0.043 J**
Butyl Benzyl Phthalate	**0.27 J**	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031958	16031947	16031950	16031954	16031951	16031959
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031958	16031948	16032131	16032129	16032129	16031955
Location	Residence	Residence	Blank	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	**0.034 J**	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	**0.17 J**	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031958	16031948	16032131	16032129	16032129	16031955
Location	Residence	Residence	Blank	Residence	Residence	Residence
Date Sampled	**3/25/2016**	**3/25/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	**0.24 J**	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031946	16031954	16031949	16031966	16031953	16031947
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16031946	16031954	16031949	16031966	16031953	16031947
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/25/2016	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.0094	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.017	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032129	16032132	16032131	16032129	16032132	16032132
Location	Residence	Residence	Residence	Blank	Residence	Residence
Date Sampled	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	**0.017 J**	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032129	16032132	16032131	16032129	16032132	16032132
Location	Residence	Residence	Residence	Blank	Residence	Residence
Date Sampled	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.0093	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.012	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.012	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.023	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	< 0.023	< 0.023	< 0.02	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.0094	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.017	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032134	16032130	16040255	16040489	16040489	16040488
Location	Residence	Residence	Residence	Residence	Blank	Blank
Date Sampled	**3/29/2016**	**3/28/2016**	**4/5/2016**	**4/7/2016**	**4/7/2016**	**4/7/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032134	16032130	16040255	16040489	16040489	16040488
Location	Residence	Residence	Residence	Residence	Blank	Blank
Date Sampled	**3/29/2016**	**3/28/2016**	**4/5/2016**	**4/7/2016**	**4/7/2016**	**4/7/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	**0.084 J**	**0.027 J**	< 0.023	**0.062 J**
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.0094	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.017	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16040487	16040487	16032128	16032128	16032128	16032128
Location	Residence	Residence	School	School	School	Blank
Date Sampled	**4/7/2016**	**4/7/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	**0.026 J**	**0.058 J**	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16040487	16040487	16032128	16032128	16032128	16032128
Location	Residence	Residence	School	School	School	Blank
Date Sampled	**4/7/2016**	**4/7/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	**0.023 J**	**0.055 J**	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032128	16032128	16041367	16041367	16041367	16041367
Location	School	School	School	School	School	School
Date Sampled	**3/28/2016**	**3/28/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	**0.025 J**	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032128	16032128	16041367	16041367	16041367	16041367
Location	School	School	School	School	School	School
Date Sampled	**3/28/2016**	**3/28/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.023	**0.038 J**	**0.023 J**	**0.024 J**	**0.026 J**
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16041367	16032128	16032128	16032128	16032128	16032128
Location	School	School	School	School	School	Blank
Date Sampled	**4/20/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	**0.054 J**	**0.19 J**	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16041367	16032128	16032128	16032128	16032128	16032128
Location	School	School	School	School	School	Blank
Date Sampled	**4/20/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	**0.024 J**	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032128	16041367	16041367	16041367	16041367	16041367
Location	School	School	School	School	School	School
Date Sampled	**3/28/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	< 0.011	**0.027 J**	**0.037 J**	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032128	16041367	16041367	16041367	16041367	16041367
Location	School	School	School	School	School	School
Date Sampled	**3/28/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	**0.034 J**	**0.025 J**	**0.027 J**	**0.026 J**	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16041367	16031952	16031966	16031952	16031946	16031952
Location	Blank	Control	Control	Control	Control	Control
Date Sampled	**4/20/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	< 0.011	**0.014 J**	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16041367	16031952	16031966	16031952	16031946	16031952
Location	Blank	Control	Control	Control	Control	Control
Date Sampled	**4/20/2016**	**3/25/2016**	**3/25/2016**	**3/25/2016**	3/25/2016	**3/25/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	**0.044 J**	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032131	16032130	16032130	16032129	16040488
Location	Control	Control	Control	Control	Control
Date Sampled	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**4/7/2016**
1,2,4-Trichlorobenzene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
1,2-Dichlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
1,3-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
1,4-Dichlorobenzene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4,5-Trichlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4,6-Trichlorophenol	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2,4-Dichlorophenol	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2,4-Dimethylphenol	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
2,4-Dinitrophenol	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
2,4-Dinitrotoluene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,6-Dinitrotoluene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
2-Chloronaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Chlorophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
2-Methylphenol	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
2-Nitroaniline	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3,3'-Dichlorobenzidine	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
3-Nitroaniline	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
4,6-Dinitro-2-Methylphenol	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
4-Bromophenyl-Phenyl Ether	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
4-Chloro-3-Methylphenol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chloroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl-Phenyl Ether	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
3/4-Methylphenol	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
4-Nitroaniline	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
4-Nitrophenol	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Acenaphthylene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Aniline	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Anthracene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Azobenzene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzidine	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Benzo (a) Anthracene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (a) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzo (g,h,i) Perylene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Benzoic Acid	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
Benzyl Alcohol	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Bis(2-Chloroethoxy) Methane	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Chloroethyl) Ether	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
Bis(2-Chloroisopropyl) Ether	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Bis(2-Ethylhexyl) Phthalate	< 0.011	**0.064**	< 0.011	< 0.011	< 0.011
Butyl Benzyl Phthalate	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011

Table 2: Wipe Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA 8270; Units: micrograms per square centimeter (µg/cm^2)

Results file number	16032131	16032130	16032130	16032129	16040488
Location	Control	Control	Control	Control	Control
Date Sampled	**3/28/2016**	**3/28/2016**	**3/28/2016**	**3/28/2016**	**4/7/2016**
Chrysene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Di-n-Butyl Phthalate	< 0.012	< 0.0093	< 0.012	< 0.012	< 0.012
Di-n-Octyl Phthalate	< 0.02	< 0.012	< 0.02	< 0.02	< 0.02
Dibenz (a,h) Anthracene	< 0.0093	< 0.012	< 0.0093	< 0.0093	< 0.0093
Dibenzofuran	< 0.012	< 0.023	< 0.012	< 0.012	< 0.012
Diethyl Phthalate	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Dimethyl Phthalate	< 0.023	< 0.02	< 0.023	< 0.023	**0.056 J**
Fluoranthene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Fluorene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachloro-1,3-Butadiene	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorocyclopentadiene	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Hexachloroethane	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Indeno (1,2,3-c,d) Pyrene	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Isophorone	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
N-Nitroso-di-n-propylamine	< 0.017	< 0.0094	< 0.017	< 0.017	< 0.017
N-Nitrosodimethylamine	< 0.0094	< 0.017	< 0.0094	< 0.0094	< 0.0094
N-Nitrosodiphenylamine	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Naphthalene	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Nitrobenzene	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
Pentachlorophenol	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Phenanthrene	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Phenol	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096
Pyrene	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015

Notes:

J: Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

TICs are not included on table, refer to lab reports

Res: Residence

Ctrl: Control

Ext: Exterior (outdoors)

Dup: Duplicate sample

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371790	L371318	L371657	L371657	L371657	L371657	L371657
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/5/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
ALUMINUM	< 0.0026	< 0.0027	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026
ANTIMONY	< 0.00032	< 0.00032	< 0.00033	< 0.00032	< 0.00032	< 0.00031	< 0.00032
ARSENIC	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
BARIUM	< 0.000026	< 0.000027	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026
BERYLLIUM	< 0.0000026	< 0.0000027	< 0.0000028	< 0.0000026	< 0.0000027	< 0.0000026	< 0.0000026
BISMUTH	< 0.000026	< 0.000027	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026
BORON	< 0.00053	< 0.00053	< 0.00056	< 0.00053	< 0.00053	< 0.00052	< 0.00053
CADMIUM	< 0.0000053	< 0.0000053	< 0.0000056	< 0.0000053	< 0.0000053	< 0.0000052	< 0.0000053
CALCIUM	< 0.026	< 0.027	< 0.028	< 0.026	< 0.027	< 0.026	< 0.026
CHROMIUM	< 0.0026	< 0.0027	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026
COBALT	< 0.000016	< 0.000016	< 0.000017	< 0.000016	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00011
INDIUM	< 0.00026	< 0.00027	< 0.00028	< 0.00026	< 0.00027	< 0.00026	< 0.00026
IRON	< 0.0026	< 0.0027	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026
LANTHANUM	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
LEAD	< 0.000026	< 0.000027	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026
LITHIUM	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
MAGNESIUM	< 0.0026	< 0.0027	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026
MANGANESE	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
MOLYBDENUM	< 0.000026	< 0.000027	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026
NICKEL	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
PHOSPHORUS	< 0.0053	< 0.0053	< 0.0056	< 0.0053	< 0.0053	< 0.0052	< 0.0053
POTASSIUM	< 0.0053	< 0.0053	< 0.0056	< 0.0053	< 0.0053	< 0.0052	< 0.0053
SELENIUM	< 0.00079	< 0.0008	< 0.00083	< 0.00079	< 0.0008	< 0.00078	< 0.00079
SILICON	< 0.0026	< 0.0027	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026
SODIUM	< 0.026	< 0.027	< 0.028	< 0.026	< 0.027	< 0.026	< 0.026
STRONTIUM	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
TELLURIUM	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
THALLIUM	< 0.00026	< 0.00027	< 0.00028	< 0.00026	< 0.00027	< 0.00026	< 0.00026
TITANIUM	< 0.00026	< 0.00027	< 0.00028	< 0.00026	< 0.00027	< 0.00026	< 0.00026
TUNGSTEN	< 0.00053	< 0.00053	< 0.00056	< 0.00053	< 0.00053	< 0.00052	< 0.00053
URANIUM	< 0.000053	< 0.000053	< 0.000056	< 0.000053	< 0.000053	< 0.000052	< 0.000053
VANADIUM	< 0.00016	< 0.00016	< 0.00017	< 0.00016	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.0000053	< 0.0000053	< 0.0000056	< 0.0000053	< 0.0000053	< 0.0000052	< 0.0000053
ZINC	< 0.00079	< 0.0008	< 0.00083	< 0.00079	< 0.0008	< 0.00078	< 0.00079
TOTAL DUST	< 0.018	**0.018**	< 0.019	< 0.018	< 0.018	< 0.017	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371329	L371438	L371329	L371438	L371438	L371438	L371657
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016
ALUMINUM	< 0.0026	< 0.0026	< 0.0024	< 0.0025	< 0.0026	< 0.0025	< 0.0027
ANTIMONY	< 0.00031	< 0.00031	< 0.00029	< 0.0003	< 0.00031	< 0.0003	< 0.00032
ARSENIC	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
BARIUM	< 0.000026	< 0.000026	< 0.000024	< 0.000025	< 0.000026	< 0.000025	< 0.000027
BERYLLIUM	< 0.0000026	< 0.0000026	< 0.0000024	< 0.0000025	< 0.0000026	< 0.0000025	< 0.0000027
BISMUTH	< 0.000026	< 0.000026	< 0.000024	< 0.000025	< 0.000026	< 0.000025	< 0.000027
BORON	< 0.00052	< 0.00052	< 0.00048	< 0.0005	< 0.00051	< 0.0005	< 0.00053
CADMIUM	< 0.0000052	< 0.0000052	< 0.0000048	< 0.000005	< 0.0000051	< 0.000005	< 0.0000053
CALCIUM	< 0.026	< 0.026	< 0.024	< 0.025	< 0.026	< 0.025	< 0.027
CHROMIUM	< 0.0026	< 0.0026	< 0.0024	< 0.0025	< 0.0026	< 0.0025	< 0.0027
COBALT	< 0.000016	< 0.000016	< 0.000014	< 0.000015	< 0.000015	< 0.000015	< 0.000016
COPPER	< 0.0001	< 0.0001	< 0.000096	< 0.000099	< 0.0001	< 0.0001	< 0.00011
INDIUM	< 0.00026	< 0.00026	< 0.00024	< 0.00025	< 0.00026	< 0.00025	< 0.00027
IRON	< 0.0026	< 0.0026	< 0.0024	< 0.0025	< 0.0026	< 0.0025	< 0.0027
LANTHANUM	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
LEAD	< 0.000026	< 0.000026	< 0.000024	< 0.000025	< 0.000026	< 0.000025	< 0.000027
LITHIUM	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
MAGNESIUM	< 0.0026	< 0.0026	< 0.0024	< 0.0025	< 0.0026	< 0.0025	< 0.0027
MANGANESE	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
MOLYBDENUM	< 0.000026	< 0.000026	< 0.000024	< 0.000025	< 0.000026	< 0.000025	< 0.000027
NICKEL	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
PHOSPHORUS	< 0.0052	< 0.0052	< 0.0048	< 0.005	< 0.0051	< 0.005	< 0.0053
POTASSIUM	< 0.0052	< 0.0052	< 0.0048	< 0.005	< 0.0051	< 0.005	< 0.0053
SELENIUM	< 0.00079	< 0.00078	< 0.00072	< 0.00074	< 0.00077	< 0.00075	< 0.0008
SILICON	< 0.0026	< 0.0026	< 0.0024	< 0.0025	< 0.0026	< 0.0025	< 0.0027
SODIUM	< 0.026	< 0.026	< 0.024	< 0.025	< 0.026	< 0.025	< 0.027
STRONTIUM	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
TELLURIUM	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
THALLIUM	< 0.00026	< 0.00026	< 0.00024	< 0.00025	< 0.00026	< 0.00025	< 0.00027
TITANIUM	< 0.00026	< 0.00026	< 0.00024	< 0.00025	< 0.00026	< 0.00025	< 0.00027
TUNGSTEN	< 0.00052	< 0.00052	< 0.00048	< 0.0005	< 0.00051	< 0.0005	< 0.00053
URANIUM	< 0.000052	< 0.000052	< 0.000048	< 0.00005	< 0.000051	< 0.00005	< 0.000053
VANADIUM	< 0.00016	< 0.00016	< 0.00014	< 0.00015	< 0.00015	< 0.00015	< 0.00016
YTTRIUM	< 0.0000052	< 0.0000052	< 0.0000048	< 0.000005	< 0.0000051	< 0.000005	< 0.0000053
ZINC	< 0.00079	< 0.00078	< 0.00072	< 0.00074	< 0.00077	< 0.00075	< 0.0008
TOTAL DUST	< 0.017	< 0.017	**0.016**	< 0.017	< 0.017	**0.02**	**0.022**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371657	L371323	L371323	L371318	L371438	L371318	L371657
Location	Res-Dup	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0028	< 0.0027	< 0.0025	< 0.0026	< 0.0026
ANTIMONY	< 0.00032	< 0.00033	< 0.00034	< 0.00033	< 0.0003	< 0.00032	< 0.00032
ARSENIC	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
BARIUM	< 0.000027	< 0.000027	< 0.000028	< 0.000027	< 0.000025	< 0.000026	< 0.000026
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000028	< 0.0000027	< 0.0000025	< 0.0000026	< 0.0000026
BISMUTH	< 0.000027	< 0.000027	< 0.000028	< 0.000027	< 0.000025	< 0.000026	< 0.000026
BORON	< 0.00053	< 0.00054	< 0.00056	< 0.00054	< 0.00051	< 0.00053	< 0.00053
CADMIUM	< 0.0000053	< 0.0000054	< 0.0000056	< 0.0000054	< 0.0000051	< 0.0000053	< 0.0000053
CALCIUM	< 0.027	< 0.027	< 0.028	< 0.027	< 0.025	< 0.026	< 0.026
CHROMIUM	< 0.0027	< 0.0027	< 0.0028	< 0.0027	< 0.0025	< 0.0026	< 0.0026
COBALT	< 0.000016	< 0.000016	< 0.000017	< 0.000016	< 0.000015	< 0.000016	< 0.000016
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.00011
INDIUM	< 0.00027	< 0.00027	< 0.00028	< 0.00027	< 0.00025	< 0.00026	< 0.00026
IRON	< 0.0027	< 0.0027	< 0.0028	< 0.0027	< 0.0025	< 0.0026	< 0.0026
LANTHANUM	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
LEAD	< 0.000027	< 0.000027	< 0.000028	< 0.000027	< 0.000025	< 0.000026	< 0.000026
LITHIUM	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
MAGNESIUM	< 0.0027	< 0.0027	< 0.0028	< 0.0027	< 0.0025	< 0.0026	< 0.0026
MANGANESE	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000028	< 0.000027	< 0.000025	< 0.000026	< 0.000026
NICKEL	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
PHOSPHORUS	< 0.0053	< 0.0054	< 0.0056	< 0.0054	< 0.0051	< 0.0053	< 0.0053
POTASSIUM	< 0.0053	< 0.0054	< 0.0056	< 0.0054	< 0.0051	< 0.0053	< 0.0053
SELENIUM	< 0.0008	< 0.00081	< 0.00084	< 0.00081	< 0.00076	< 0.00079	< 0.00079
SILICON	< 0.0027	< 0.0027	< 0.0028	< 0.0027	< 0.0025	< 0.0026	< 0.0026
SODIUM	< 0.027	< 0.027	< 0.028	< 0.027	< 0.025	< 0.026	< 0.026
STRONTIUM	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
TELLURIUM	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
THALLIUM	< 0.00027	< 0.00027	< 0.00028	< 0.00027	< 0.00025	< 0.00026	< 0.00026
TITANIUM	< 0.00027	< 0.00027	< 0.00028	< 0.00027	< 0.00025	< 0.00026	< 0.00026
TUNGSTEN	< 0.00053	< 0.00054	< 0.00056	< 0.00054	< 0.00051	< 0.00053	< 0.00053
URANIUM	< 0.000053	< 0.000054	< 0.000056	< 0.000054	< 0.000051	< 0.000053	< 0.000053
VANADIUM	< 0.00016	< 0.00016	< 0.00017	< 0.00016	< 0.00015	< 0.00016	< 0.00016
YTTRIUM	< 0.0000053	< 0.0000054	< 0.0000056	< 0.0000054	< 0.0000051	< 0.0000053	< 0.0000053
ZINC	< 0.0008	< 0.00081	< 0.00084	< 0.00081	< 0.00076	< 0.00079	< 0.00079
TOTAL DUST	**0.022**	< 0.018	**0.034**	< 0.018	< 0.017	< 0.018	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371933	L371933	L371172	L371323	L371938	L371438	L371438
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	3/29/2016	3/31/2016	4/7/2016	4/1/2016	4/1/2016
ALUMINUM	< 0.0028	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026
ANTIMONY	< 0.00033	< 0.00033	< 0.00032	< 0.00032	< 0.00031	< 0.00031	< 0.00031
ARSENIC	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
BARIUM	< 0.000028	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026
BERYLLIUM	< 0.0000028	< 0.0000028	< 0.0000026	< 0.0000027	< 0.0000026	< 0.0000026	< 0.0000026
BISMUTH	< 0.000028	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026
BORON	< 0.00055	< 0.00055	< 0.00053	< 0.00053	< 0.00052	< 0.00051	< 0.00051
CADMIUM	< 0.0000055	< 0.0000055	< 0.0000053	< 0.0000053	< 0.0000052	< 0.0000051	< 0.0000051
CALCIUM	< 0.028	< 0.028	< 0.026	< 0.027	< 0.026	< 0.026	< 0.026
CHROMIUM	< 0.0028	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026
COBALT	< 0.000017	< 0.000017	< 0.000016	< 0.000016	< 0.000016	< 0.000015	< 0.000015
COPPER	< 0.00011	< 0.00011	< 0.00011	**0.00029**	< 0.0001	< 0.0001	< 0.0001
INDIUM	< 0.00028	< 0.00028	< 0.00026	< 0.00027	< 0.00026	< 0.00026	< 0.00026
IRON	< 0.0028	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026
LANTHANUM	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
LEAD	< 0.000028	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026
LITHIUM	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
MAGNESIUM	< 0.0028	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026
MANGANESE	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
MOLYBDENUM	< 0.000028	< 0.000028	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026
NICKEL	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
PHOSPHORUS	< 0.0055	< 0.0055	< 0.0053	< 0.0053	< 0.0052	< 0.0051	< 0.0051
POTASSIUM	< 0.0055	< 0.0055	< 0.0053	< 0.0053	< 0.0052	< 0.0051	< 0.0051
SELENIUM	< 0.00083	< 0.00083	< 0.00079	< 0.0008	< 0.00078	< 0.00077	< 0.00077
SILICON	< 0.0028	< 0.0028	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026
SODIUM	< 0.028	< 0.028	< 0.026	< 0.027	< 0.026	< 0.026	< 0.026
STRONTIUM	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
TELLURIUM	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
THALLIUM	< 0.00028	< 0.00028	< 0.00026	< 0.00027	< 0.00026	< 0.00026	< 0.00026
TITANIUM	< 0.00028	< 0.00028	< 0.00026	< 0.00027	< 0.00026	< 0.00026	< 0.00026
TUNGSTEN	< 0.00055	< 0.00055	< 0.00053	< 0.00053	< 0.00052	< 0.00051	< 0.00051
URANIUM	< 0.000055	< 0.000055	< 0.000053	< 0.000053	< 0.000052	< 0.000051	< 0.000051
VANADIUM	< 0.00017	< 0.00017	< 0.00016	< 0.00016	< 0.00016	< 0.00015	< 0.00015
YTTRIUM	< 0.0000055	< 0.0000055	< 0.0000053	< 0.0000053	< 0.0000052	< 0.0000051	< 0.0000051
ZINC	< 0.00083	< 0.00083	< 0.00079	< 0.0008	< 0.00078	< 0.00077	< 0.00077
TOTAL DUST	**0.028**	**0.027**	< 0.018	< 0.018	< 0.017	< 0.017	< 0.017

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371438	L371938	L371790	L371933	L371933	L371172	L371172
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/1/2016	4/7/2016	4/5/2016	4/6/2016	4/6/2016	3/29/2016	3/29/2016
ALUMINUM	< 0.0025	< 0.0031	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027
ANTIMONY	< 0.0003	< 0.00038	< 0.00031	< 0.00032	< 0.00031	< 0.00032	< 0.00032
ARSENIC	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
BARIUM	**0.000034**	< 0.000031	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000027
BERYLLIUM	< 0.0000025	< 0.0000031	< 0.0000026	< 0.0000026	< 0.0000026	< 0.0000026	< 0.0000027
BISMUTH	< 0.000025	< 0.000031	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000027
BORON	< 0.0005	< 0.00063	< 0.00052	< 0.00053	< 0.00052	< 0.00053	< 0.00053
CADMIUM	< 0.000005	< 0.0000063	< 0.0000052	< 0.0000053	< 0.0000052	< 0.0000053	< 0.0000053
CALCIUM	< 0.025	< 0.031	< 0.026	< 0.026	< 0.026	< 0.026	< 0.027
CHROMIUM	< 0.0025	< 0.0031	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027
COBALT	< 0.000015	< 0.000019	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.0001	< 0.00013	< 0.0001	< 0.00011	< 0.0001	< 0.00011	< 0.00011
INDIUM	< 0.00025	< 0.00031	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00027
IRON	< 0.0025	< 0.0031	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027
LANTHANUM	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
LEAD	< 0.000025	< 0.000031	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000027
LITHIUM	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
MAGNESIUM	< 0.0025	< 0.0031	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027
MANGANESE	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
MOLYBDENUM	< 0.000025	< 0.000031	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000027
NICKEL	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
PHOSPHORUS	< 0.005	< 0.0063	< 0.0052	< 0.0053	< 0.0052	< 0.0053	< 0.0053
POTASSIUM	< 0.005	< 0.0063	< 0.0052	< 0.0053	< 0.0052	< 0.0053	< 0.0053
SELENIUM	< 0.00075	< 0.00094	< 0.00078	< 0.00079	< 0.00078	< 0.00079	< 0.0008
SILICON	< 0.0025	< 0.0031	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0027
SODIUM	< 0.025	< 0.031	< 0.026	< 0.026	< 0.026	< 0.026	< 0.027
STRONTIUM	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
TELLURIUM	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
THALLIUM	< 0.00025	< 0.00031	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00027
TITANIUM	< 0.00025	< 0.00031	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00027
TUNGSTEN	< 0.0005	< 0.00063	< 0.00052	< 0.00053	< 0.00052	< 0.00053	< 0.00053
URANIUM	< 0.00005	< 0.000063	< 0.000052	< 0.000053	< 0.000052	< 0.000053	< 0.000053
VANADIUM	< 0.00015	< 0.00019	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.000005	< 0.0000063	< 0.0000052	< 0.0000053	< 0.0000052	< 0.0000053	< 0.0000053
ZINC	< 0.00075	< 0.00094	< 0.00078	< 0.00079	< 0.00078	< 0.00079	< 0.0008
TOTAL DUST	**0.042**	< 0.021	< 0.017	< 0.018	< 0.017	< 0.018	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371329	L371323	L371329	L371329	L371329	L371329	L371169
Location	Residence	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence
Date Sampled	3/30/2016	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016
ALUMINUM	< 0.0026	< 0.0027	< 0.0026	< 0.0024	< 0.0025	< 0.0025	< 0.0027
ANTIMONY	< 0.00031	< 0.00033	< 0.00031	< 0.00029	< 0.0003	< 0.0003	< 0.00032
ARSENIC	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
BARIUM	< 0.000026	< 0.000027	< 0.000026	< 0.000024	< 0.000025	< 0.000025	< 0.000027
BERYLLIUM	< 0.0000026	< 0.0000027	< 0.0000026	< 0.0000024	< 0.0000025	< 0.0000025	< 0.0000027
BISMUTH	< 0.000026	< 0.000027	< 0.000026	< 0.000024	< 0.000025	< 0.000025	< 0.000027
BORON	< 0.00052	< 0.00054	< 0.00051	< 0.00048	< 0.00051	< 0.00049	< 0.00053
CADMIUM	< 0.0000052	< 0.0000054	< 0.0000051	< 0.0000048	< 0.0000051	< 0.0000049	< 0.0000053
CALCIUM	< 0.026	< 0.027	< 0.026	< 0.024	< 0.025	< 0.025	< 0.027
CHROMIUM	< 0.0026	< 0.0027	< 0.0026	< 0.0024	< 0.0025	< 0.0025	< 0.0027
COBALT	< 0.000016	< 0.000016	< 0.000015	< 0.000014	< 0.000015	< 0.000015	< 0.000016
COPPER	< 0.0001	< 0.00011	< 0.0001	< 0.000095	< 0.0001	< 0.000099	< 0.00011
INDIUM	< 0.00026	< 0.00027	< 0.00026	< 0.00024	< 0.00025	< 0.00025	< 0.00027
IRON	< 0.0026	< 0.0027	< 0.0026	< 0.0024	< 0.0025	< 0.0025	< 0.0027
LANTHANUM	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
LEAD	< 0.000026	< 0.000027	< 0.000026	< 0.000024	< 0.000025	< 0.000025	< 0.000027
LITHIUM	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
MAGNESIUM	< 0.0026	< 0.0027	< 0.0026	< 0.0024	< 0.0025	< 0.0025	< 0.0027
MANGANESE	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
MOLYBDENUM	< 0.000026	< 0.000027	< 0.000026	< 0.000024	< 0.000025	< 0.000025	< 0.000027
NICKEL	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
PHOSPHORUS	< 0.0052	< 0.0054	< 0.0051	< 0.0048	< 0.0051	< 0.0049	< 0.0053
POTASSIUM	< 0.0052	< 0.0054	< 0.0051	< 0.0048	< 0.0051	< 0.0049	< 0.0053
SELENIUM	< 0.00078	< 0.00082	< 0.00077	< 0.00071	< 0.00076	< 0.00074	< 0.0008
SILICON	< 0.0026	< 0.0027	< 0.0026	< 0.0024	< 0.0025	< 0.0025	< 0.0027
SODIUM	< 0.026	< 0.027	< 0.026	< 0.024	< 0.025	< 0.025	< 0.027
STRONTIUM	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
TELLURIUM	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
THALLIUM	< 0.00026	< 0.00027	< 0.00026	< 0.00024	< 0.00025	< 0.00025	< 0.00027
TITANIUM	< 0.00026	< 0.00027	< 0.00026	< 0.00024	< 0.00025	< 0.00025	< 0.00027
TUNGSTEN	< 0.00052	< 0.00054	< 0.00051	< 0.00048	< 0.00051	< 0.00049	< 0.00053
URANIUM	< 0.000052	< 0.000054	< 0.000051	< 0.000048	< 0.000051	< 0.000049	< 0.000053
VANADIUM	< 0.00016	< 0.00016	< 0.00015	< 0.00014	< 0.00015	< 0.00015	< 0.00016
YTTRIUM	< 0.0000052	< 0.0000054	< 0.0000051	< 0.0000048	< 0.0000051	< 0.0000049	< 0.0000053
ZINC	< 0.00078	< 0.00082	< 0.00077	< 0.00071	< 0.00076	< 0.00074	< 0.0008
TOTAL DUST	< 0.017	< 0.018	< 0.017	< 0.016	< 0.017	**0.018**	**0.026**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371329	L371329	L371329	L371329	L371169	L371169	L371318
Location	Residence	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016	3/31/2016
ALUMINUM	< 0.0025	< 0.0025	< 0.0024	< 0.0024	< 0.0027	< 0.0027	< 0.0026
ANTIMONY	< 0.0003	< 0.0003	< 0.00029	< 0.00029	< 0.00032	< 0.00032	< 0.00032
ARSENIC	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
BARIUM	< 0.000025	< 0.000025	< 0.000024	< 0.000024	< 0.000027	< 0.000027	< 0.000026
BERYLLIUM	< 0.0000025	< 0.0000025	< 0.0000024	< 0.0000024	< 0.0000027	< 0.0000027	< 0.0000026
BISMUTH	< 0.000025	< 0.000025	< 0.000024	< 0.000024	< 0.000027	< 0.000027	< 0.000026
BORON	< 0.0005	< 0.00049	< 0.00049	< 0.00049	< 0.00054	< 0.00054	< 0.00053
CADMIUM	< 0.000005	< 0.0000049	< 0.0000049	< 0.0000049	< 0.0000054	< 0.0000054	< 0.0000053
CALCIUM	< 0.025	< 0.025	< 0.024	< 0.024	< 0.027	< 0.027	< 0.026
CHROMIUM	< 0.0025	< 0.0025	< 0.0024	< 0.0024	< 0.0027	< 0.0027	< 0.0026
COBALT	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.0001	< 0.000098	< 0.000098	< 0.000097	< 0.00011	< 0.00011	< 0.00011
INDIUM	< 0.00025	< 0.00025	< 0.00024	< 0.00024	< 0.00027	< 0.00027	< 0.00026
IRON	< 0.0025	< 0.0025	< 0.0024	< 0.0024	< 0.0027	< 0.0027	< 0.0026
LANTHANUM	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
LEAD	< 0.000025	< 0.000025	< 0.000024	< 0.000024	< 0.000027	< 0.000027	< 0.000026
LITHIUM	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
MAGNESIUM	< 0.0025	< 0.0025	< 0.0024	< 0.0024	< 0.0027	< 0.0027	< 0.0026
MANGANESE	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
MOLYBDENUM	< 0.000025	< 0.000025	< 0.000024	< 0.000024	< 0.000027	< 0.000027	< 0.000026
NICKEL	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
PHOSPHORUS	< 0.005	< 0.0049	< 0.0049	< 0.0049	< 0.0054	< 0.0054	< 0.0053
POTASSIUM	< 0.005	< 0.0049	< 0.0049	< 0.0049	< 0.0054	< 0.0054	< 0.0053
SELENIUM	< 0.00075	< 0.00074	< 0.00073	< 0.00073	< 0.00081	< 0.00081	< 0.00079
SILICON	< 0.0025	< 0.0025	< 0.0024	< 0.0024	< 0.0027	< 0.0027	< 0.0026
SODIUM	< 0.025	< 0.025	< 0.024	< 0.024	< 0.027	< 0.027	< 0.026
STRONTIUM	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
TELLURIUM	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
THALLIUM	< 0.00025	< 0.00025	< 0.00024	< 0.00024	< 0.00027	< 0.00027	< 0.00026
TITANIUM	< 0.00025	< 0.00025	< 0.00024	< 0.00024	< 0.00027	< 0.00027	< 0.00026
TUNGSTEN	< 0.0005	< 0.00049	< 0.00049	< 0.00049	< 0.00054	< 0.00054	< 0.00053
URANIUM	< 0.00005	< 0.000049	< 0.000049	< 0.000049	< 0.000054	< 0.000054	< 0.000053
VANADIUM	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.000005	< 0.0000049	< 0.0000049	< 0.0000049	< 0.0000054	< 0.0000054	< 0.0000053
ZINC	< 0.00075	< 0.00074	< 0.00073	< 0.00073	< 0.00081	< 0.00081	< 0.00079
TOTAL DUST	< 0.017	< 0.016	**0.029**	< 0.016	< 0.018	< 0.018	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371933	L371657	L371936	L371936	L371936	L371318	L371329
Location	Residence	Residence	Residence	Res-Dup	Res-Dup	Residence	Residence
Date Sampled	4/6/2016	4/4/2016	4/8/2016	4/8/2016	4/8/2016	3/31/2016	3/30/2016
ALUMINUM	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026	< 0.0027	< 0.0025
ANTIMONY	< 0.00031	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.0003
ARSENIC	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
BARIUM	< 0.000026	< 0.000027	**0.00003**	**0.000034**	**0.000029**	< 0.000027	< 0.000025
BERYLLIUM	< 0.0000026	< 0.0000027	< 0.0000026	< 0.0000026	< 0.0000026	< 0.0000027	< 0.0000025
BISMUTH	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026	< 0.000027	< 0.000025
BORON	< 0.00052	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00054	< 0.0005
CADMIUM	< 0.0000052	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000054	< 0.000005
CALCIUM	< 0.026	< 0.027	< 0.026	**0.028**	< 0.026	< 0.027	< 0.025
CHROMIUM	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026	< 0.0027	< 0.0025
COBALT	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000015
COPPER	< 0.0001	< 0.00011	**0.0002**	**0.00023**	**0.00018**	< 0.00011	< 0.0001
INDIUM	< 0.00026	< 0.00027	< 0.00026	< 0.00026	< 0.00026	< 0.00027	< 0.00025
IRON	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026	< 0.0027	< 0.0025
LANTHANUM	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
LEAD	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026	< 0.000027	< 0.000025
LITHIUM	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
MAGNESIUM	< 0.0026	< 0.0027	< 0.0026	< 0.0026	< 0.0026	< 0.0027	< 0.0025
MANGANESE	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
MOLYBDENUM	< 0.000026	< 0.000027	< 0.000026	< 0.000026	< 0.000026	< 0.000027	< 0.000025
NICKEL	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
PHOSPHORUS	< 0.0052	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0054	< 0.005
POTASSIUM	< 0.0052	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0054	< 0.005
SELENIUM	< 0.00078	< 0.0008	< 0.00079	< 0.00079	< 0.00079	< 0.0008	< 0.00076
SILICON	< 0.0026	< 0.0027	**0.0049**	**0.0077**	**0.0036**	< 0.0027	< 0.0025
SODIUM	< 0.026	< 0.027	**< 0.026**	< 0.026	< 0.026	< 0.027	< 0.025
STRONTIUM	< 0.000052	< 0.000053	**0.000054**	**0.000062**	< 0.000053	< 0.000054	< 0.00005
TELLURIUM	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
THALLIUM	< 0.00026	< 0.00027	< 0.00026	< 0.00026	< 0.00026	< 0.00027	< 0.00025
TITANIUM	< 0.00026	< 0.00027	< 0.00026	< 0.00026	< 0.00026	< 0.00027	< 0.00025
TUNGSTEN	< 0.00052	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00054	< 0.0005
URANIUM	< 0.000052	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000054	< 0.00005
VANADIUM	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00015
YTTRIUM	< 0.0000052	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000054	< 0.000005
ZINC	< 0.00078	< 0.0008	< 0.00079	< 0.00079	< 0.00079	< 0.0008	< 0.00076
TOTAL DUST	< 0.017	< 0.018	**0.22**	**0.23**	**0.21**	< 0.018	< 0.017

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371438	L371329	L371329	L371933	L371657	L371318	L371657
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	3/30/2016	3/30/2016	4/6/2016	4/4/2016	3/31/2016	4/4/2016
ALUMINUM	< 0.0026	< 0.0025	< 0.0024	< 0.0027	< 0.0028	< 0.0027	< 0.0026
ANTIMONY	< 0.00031	< 0.0003	< 0.00029	< 0.00032	< 0.00033	< 0.00033	< 0.00032
ARSENIC	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
BARIUM	< 0.000026	< 0.000025	< 0.000024	< 0.000027	< 0.000028	< 0.000027	< 0.000026
BERYLLIUM	< 0.0000026	< 0.0000025	< 0.0000024	< 0.0000027	< 0.0000028	< 0.0000027	< 0.0000026
BISMUTH	< 0.000026	< 0.000025	< 0.000024	< 0.000027	< 0.000028	< 0.000027	< 0.000026
BORON	< 0.00052	< 0.00051	< 0.00048	< 0.00053	< 0.00055	< 0.00055	< 0.00053
CADMIUM	< 0.0000052	< 0.0000051	< 0.0000048	< 0.0000053	< 0.0000055	< 0.0000055	< 0.0000053
CALCIUM	< 0.026	< 0.025	< 0.024	< 0.027	< 0.028	< 0.027	< 0.026
CHROMIUM	< 0.0026	< 0.0025	< 0.0024	< 0.0027	< 0.0028	< 0.0027	< 0.0026
COBALT	< 0.000016	< 0.000015	< 0.000015	< 0.000016	< 0.000017	< 0.000016	< 0.000016
COPPER	< 0.0001	< 0.0001	< 0.000097	< 0.00011	**0.00016**	< 0.00011	< 0.00011
INDIUM	< 0.00026	< 0.00025	< 0.00024	< 0.00027	**< 0.00028**	< 0.00027	< 0.00026
IRON	< 0.0026	< 0.0025	< 0.0024	< 0.0027	< 0.0028	< 0.0027	< 0.0026
LANTHANUM	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
LEAD	< 0.000026	< 0.000025	< 0.000024	< 0.000027	< 0.000028	< 0.000027	< 0.000026
LITHIUM	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
MAGNESIUM	< 0.0026	< 0.0025	< 0.0024	< 0.0027	< 0.0028	< 0.0027	< 0.0026
MANGANESE	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
MOLYBDENUM	< 0.000026	< 0.000025	< 0.000024	< 0.000027	< 0.000028	< 0.000027	< 0.000026
NICKEL	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
PHOSPHORUS	< 0.0052	< 0.0051	< 0.0048	< 0.0053	< 0.0055	< 0.0055	< 0.0053
POTASSIUM	< 0.0052	< 0.0051	< 0.0048	< 0.0053	< 0.0055	< 0.0055	< 0.0053
SELENIUM	< 0.00078	< 0.00076	< 0.00073	< 0.0008	< 0.00083	< 0.00082	< 0.00079
SILICON	< 0.0026	< 0.0025	< 0.0024	< 0.0027	< 0.0028	< 0.0027	< 0.0026
SODIUM	< 0.026	< 0.025	< 0.024	< 0.027	< 0.028	< 0.027	< 0.026
STRONTIUM	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
TELLURIUM	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
THALLIUM	< 0.00026	< 0.00025	< 0.00024	< 0.00027	< 0.00028	< 0.00027	< 0.00026
TITANIUM	< 0.00026	< 0.00025	< 0.00024	< 0.00027	< 0.00028	< 0.00027	< 0.00026
TUNGSTEN	< 0.00052	< 0.00051	< 0.00048	< 0.00053	< 0.00055	< 0.00055	< 0.00053
URANIUM	< 0.000052	< 0.000051	< 0.000048	< 0.000053	< 0.000055	< 0.000055	< 0.000053
VANADIUM	< 0.00016	< 0.00015	< 0.00015	< 0.00016	< 0.00017	< 0.00016	< 0.00016
YTTRIUM	< 0.0000052	< 0.0000051	< 0.0000048	< 0.0000053	< 0.0000055	< 0.0000055	< 0.0000053
ZINC	< 0.00078	< 0.00076	< 0.00073	< 0.0008	< 0.00083	< 0.00082	< 0.00079
TOTAL DUST	**0.018**	< 0.017	< 0.016	< 0.018	**0.043**	< 0.018	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371172	L371438	L371438	L371438	L371329	L371657	L371790
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	3/29/2016	4/1/2016	3/31/2016	3/31/2016	3/30/2016	4/4/2016	4/5/2016
ALUMINUM	< 0.0026	< 0.0026	< 0.0013	< 0.0013	< 0.0024	< 0.0027	< 0.0026
ANTIMONY	< 0.00031	< 0.00031	< 0.00016	< 0.00016	< 0.00029	< 0.00032	< 0.00031
ARSENIC	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
BARIUM	< 0.000026	< 0.000026	< 0.000013	< 0.000013	< 0.000024	< 0.000027	< 0.000026
BERYLLIUM	< 0.0000026	< 0.0000026	< 0.0000013	< 0.0000013	< 0.0000024	< 0.0000027	< 0.0000026
BISMUTH	< 0.000026	< 0.000026	< 0.000013	< 0.000013	< 0.000024	< 0.000027	< 0.000026
BORON	< 0.00052	< 0.00052	< 0.00026	< 0.00026	< 0.00048	< 0.00053	< 0.00052
CADMIUM	< 0.0000052	< 0.0000052	< 0.0000026	< 0.0000026	< 0.0000048	< 0.0000053	**0.000016**
CALCIUM	< 0.026	< 0.026	< 0.013	< 0.013	< 0.024	< 0.027	< 0.026
CHROMIUM	< 0.0026	< 0.0026	< 0.0013	< 0.0013	< 0.0024	< 0.0027	< 0.0026
COBALT	< 0.000016	< 0.000015	< 0.0000078	< 0.0000078	< 0.000014	< 0.000016	< 0.000016
COPPER	< 0.0001	< 0.0001	< 0.000052	< 0.000052	< 0.000096	< 0.00011	< 0.0001
INDIUM	< 0.00026	< 0.00026	< 0.00013	< 0.00013	< 0.00024	< 0.00027	< 0.00026
IRON	< 0.0026	< 0.0026	< 0.0013	< 0.0013	< 0.0024	< 0.0027	< 0.0026
LANTHANUM	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
LEAD	< 0.000026	< 0.000026	< 0.000013	< 0.000013	< 0.000024	< 0.000027	< 0.000026
LITHIUM	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
MAGNESIUM	< 0.0026	< 0.0026	< 0.0013	< 0.0013	< 0.0024	< 0.0027	< 0.0026
MANGANESE	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
MOLYBDENUM	< 0.000026	< 0.000026	< 0.000013	< 0.000013	< 0.000024	< 0.000027	< 0.000026
NICKEL	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
PHOSPHORUS	< 0.0052	< 0.0052	< 0.0026	< 0.0026	< 0.0048	< 0.0053	< 0.0052
POTASSIUM	< 0.0052	< 0.0052	< 0.0026	< 0.0026	< 0.0048	< 0.0053	< 0.0052
SELENIUM	< 0.00079	< 0.00077	< 0.00039	< 0.00039	< 0.00072	< 0.0008	< 0.00078
SILICON	< 0.0026	< 0.0026	< 0.0013	< 0.0013	< 0.0024	< 0.0027	< 0.0026
SODIUM	< 0.026	< 0.026	< 0.013	< 0.013	< 0.024	< 0.027	< 0.026
STRONTIUM	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
TELLURIUM	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
THALLIUM	< 0.00026	< 0.00026	< 0.00013	< 0.00013	< 0.00024	< 0.00027	< 0.00026
TITANIUM	< 0.00026	< 0.00026	< 0.00013	< 0.00013	< 0.00024	< 0.00027	< 0.00026
TUNGSTEN	< 0.00052	< 0.00052	< 0.00026	< 0.00026	< 0.00048	< 0.00053	< 0.00052
URANIUM	< 0.000052	< 0.000052	< 0.000026	< 0.000026	< 0.000048	< 0.000053	< 0.000052
VANADIUM	< 0.00016	< 0.00015	< 0.000078	< 0.000078	< 0.00014	< 0.00016	< 0.00016
YTTRIUM	< 0.0000052	< 0.0000052	< 0.0000026	< 0.0000026	< 0.0000048	< 0.0000053	< 0.0000052
ZINC	< 0.00079	< 0.00077	< 0.00039	< 0.00039	< 0.00072	< 0.0008	< 0.00078
TOTAL DUST	< 0.017	**0.037**	**0.009**	< 0.0087	**0.018**	**0.02**	< 0.017

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371657	L371318	L371318	L371318	L371438	L371172	L371172
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Res-Ext
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/29/2016	3/29/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0027	< 0.0026
ANTIMONY	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.0003	< 0.00033	< 0.00032
ARSENIC	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
BARIUM	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000027	< 0.000026
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000026	< 0.0000026	< 0.0000025	< 0.0000027	< 0.0000026
BISMUTH	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000027	< 0.000026
BORON	< 0.00054	< 0.00053	< 0.00053	< 0.00053	< 0.00051	< 0.00054	< 0.00053
CADMIUM	< 0.0000054	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000051	< 0.0000054	< 0.0000053
CALCIUM	< 0.027	< 0.027	< 0.026	< 0.026	< 0.025	< 0.027	< 0.026
CHROMIUM	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0027	< 0.0026
COBALT	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000015	< 0.000016	< 0.000016
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.00011
INDIUM	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00025	< 0.00027	< 0.00026
IRON	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0027	< 0.0026
LANTHANUM	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
LEAD	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000027	< 0.000026
LITHIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
MAGNESIUM	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0027	< 0.0026
MANGANESE	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000027	< 0.000026
NICKEL	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
PHOSPHORUS	< 0.0054	< 0.0053	< 0.0053	< 0.0053	< 0.0051	< 0.0054	< 0.0053
POTASSIUM	< 0.0054	< 0.0053	< 0.0053	< 0.0053	< 0.0051	< 0.0054	< 0.0053
SELENIUM	< 0.00081	< 0.0008	< 0.00079	< 0.00079	< 0.00076	< 0.00081	< 0.00079
SILICON	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0027	< 0.0026
SODIUM	< 0.027	< 0.027	< 0.026	< 0.026	< 0.025	< 0.027	< 0.026
STRONTIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
TELLURIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
THALLIUM	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00025	< 0.00027	< 0.00026
TITANIUM	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00025	< 0.00027	< 0.00026
TUNGSTEN	< 0.00054	< 0.00053	< 0.00053	< 0.00053	< 0.00051	< 0.00054	< 0.00053
URANIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000053	< 0.000051	< 0.000054	< 0.000053
VANADIUM	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00015	< 0.00016	< 0.00016
YTTRIUM	< 0.0000054	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000051	< 0.0000054	< 0.0000053
ZINC	< 0.00081	< 0.0008	< 0.00079	< 0.00079	< 0.00076	< 0.00081	< 0.00079
TOTAL DUST	< 0.018	< 0.018	< 0.018	< 0.018	< 0.017	< 0.018	**0.026**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371790	L371657	L371657	L371790	L371790	L371790	L371936
Location	Residence	Residence	Res-Ext	Residence	Res-Dup	Residence	Residence
Date Sampled	4/5/2016	4/4/2016	4/4/2016	4/5/2016	4/5/2016	4/5/2016	4/8/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0028	< 0.0026	< 0.0026	< 0.0026	< 0.0026
ANTIMONY	< 0.00032	< 0.00033	< 0.00034	< 0.00032	< 0.00031	< 0.00032	< 0.00031
ARSENIC	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
BARIUM	< 0.000027	< 0.000027	< 0.000028	< 0.000026	< 0.000026	< 0.000026	< 0.000026
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000028	< 0.0000026	< 0.0000026	< 0.0000026	< 0.0000026
BISMUTH	< 0.000027	< 0.000027	< 0.000028	< 0.000026	< 0.000026	< 0.000026	< 0.000026
BORON	< 0.00054	< 0.00055	< 0.00056	< 0.00053	< 0.00052	< 0.00053	< 0.00052
CADMIUM	< 0.0000054	< 0.0000055	< 0.0000056	**0.000025**	< 0.0000052	< 0.0000053	< 0.0000052
CALCIUM	< 0.027	< 0.027	< 0.028	< 0.026	< 0.026	< 0.026	< 0.026
CHROMIUM	< 0.0027	< 0.0027	< 0.0028	< 0.0026	< 0.0026	< 0.0026	< 0.0026
COBALT	< 0.000016	< 0.000016	< 0.000017	< 0.000016	< 0.000015	< 0.000016	< 0.000016
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.0001
INDIUM	< 0.00027	< 0.00027	< 0.00028	< 0.00026	< 0.00026	< 0.00026	< 0.00026
IRON	< 0.0027	< 0.0027	< 0.0028	< 0.0026	< 0.0026	< 0.0026	< 0.0026
LANTHANUM	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
LEAD	< 0.000027	< 0.000027	< 0.000028	< 0.000026	< 0.000026	< 0.000026	< 0.000026
LITHIUM	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
MAGNESIUM	< 0.0027	< 0.0027	< 0.0028	< 0.0026	< 0.0026	< 0.0026	< 0.0026
MANGANESE	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000028	< 0.000026	< 0.000026	< 0.000026	< 0.000026
NICKEL	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
PHOSPHORUS	< 0.0054	< 0.0055	< 0.0056	< 0.0053	< 0.0052	< 0.0053	< 0.0052
POTASSIUM	< 0.0054	< 0.0055	< 0.0056	< 0.0053	< 0.0052	< 0.0053	< 0.0052
SELENIUM	< 0.00081	< 0.00082	< 0.00084	< 0.00079	< 0.00077	< 0.00079	< 0.00079
SILICON	< 0.0027	< 0.0027	< 0.0028	< 0.0026	< 0.0026	< 0.0026	< 0.0026
SODIUM	< 0.027	< 0.027	< 0.028	< 0.026	< 0.026	< 0.026	< 0.026
STRONTIUM	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
TELLURIUM	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
THALLIUM	< 0.00027	< 0.00027	< 0.00028	< 0.00026	< 0.00026	< 0.00026	< 0.00026
TITANIUM	< 0.00027	< 0.00027	< 0.00028	< 0.00026	< 0.00026	< 0.00026	< 0.00026
TUNGSTEN	< 0.00054	< 0.00055	< 0.00056	< 0.00053	< 0.00052	< 0.00053	< 0.00052
URANIUM	< 0.000054	< 0.000055	< 0.000056	< 0.000053	< 0.000052	< 0.000053	< 0.000052
VANADIUM	< 0.00016	< 0.00016	< 0.00017	< 0.00016	< 0.00015	< 0.00016	< 0.00016
YTTRIUM	< 0.0000054	< 0.0000055	< 0.0000056	< 0.0000053	< 0.0000052	< 0.0000053	< 0.0000052
ZINC	< 0.00081	< 0.00082	< 0.00084	< 0.00079	< 0.00077	< 0.00079	< 0.00079
TOTAL DUST	**0.031**	< 0.018	**0.026**	< 0.018	< 0.017	< 0.018	< 0.017

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371172	L371933	L371329	L371933	L371657	L371172	L371933
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016	3/29/2016	4/6/2016
ALUMINUM	< 0.0026	< 0.0028	< 0.0024	< 0.0027	< 0.0027	< 0.0027	< 0.0027
ANTIMONY	< 0.00031	< 0.00033	< 0.00029	< 0.00033	< 0.00033	< 0.00033	< 0.00032
ARSENIC	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
BARIUM	< 0.000026	< 0.000028	< 0.000024	< 0.000027	< 0.000027	< 0.000027	< 0.000027
BERYLLIUM	< 0.0000026	< 0.0000028	< 0.0000024	< 0.0000027	< 0.0000027	< 0.0000027	< 0.0000027
BISMUTH	< 0.000026	< 0.000028	< 0.000024	< 0.000027	< 0.000027	< 0.000027	< 0.000027
BORON	< 0.00052	< 0.00055	< 0.00048	< 0.00055	< 0.00054	< 0.00055	< 0.00054
CADMIUM	< 0.0000052	< 0.0000055	< 0.0000048	< 0.0000055	< 0.0000054	< 0.0000055	< 0.0000054
CALCIUM	< 0.026	< 0.028	< 0.024	< 0.027	< 0.027	< 0.027	< 0.027
CHROMIUM	< 0.0026	< 0.0028	< 0.0024	< 0.0027	< 0.0027	< 0.0027	< 0.0027
COBALT	< 0.000016	< 0.000017	< 0.000014	< 0.000016	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.0001	< 0.00011	< 0.000097	< 0.00011	< 0.00011	< 0.00011	< 0.00011
INDIUM	< 0.00026	< 0.00028	< 0.00024	< 0.00027	< 0.00027	< 0.00027	< 0.00027
IRON	< 0.0026	< 0.0028	< 0.0024	< 0.0027	< 0.0027	< 0.0027	< 0.0027
LANTHANUM	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
LEAD	< 0.000026	< 0.000028	< 0.000024	< 0.000027	< 0.000027	< 0.000027	< 0.000027
LITHIUM	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
MAGNESIUM	< 0.0026	< 0.0028	< 0.0024	< 0.0027	< 0.0027	< 0.0027	< 0.0027
MANGANESE	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
MOLYBDENUM	< 0.000026	< 0.000028	< 0.000024	< 0.000027	< 0.000027	< 0.000027	< 0.000027
NICKEL	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
PHOSPHORUS	< 0.0052	< 0.0055	< 0.0048	< 0.0055	< 0.0054	< 0.0055	< 0.0054
POTASSIUM	< 0.0052	< 0.0055	< 0.0048	< 0.0055	< 0.0054	< 0.0055	< 0.0054
SELENIUM	< 0.00078	< 0.00083	< 0.00072	< 0.00082	< 0.00082	< 0.00082	< 0.00081
SILICON	< 0.0026	< 0.0028	< 0.0024	< 0.0027	< 0.0027	< 0.0027	< 0.0027
SODIUM	< 0.026	< 0.028	< 0.024	< 0.027	< 0.027	< 0.027	< 0.027
STRONTIUM	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
TELLURIUM	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
THALLIUM	< 0.00026	< 0.00028	< 0.00024	< 0.00027	< 0.00027	< 0.00027	< 0.00027
TITANIUM	< 0.00026	< 0.00028	< 0.00024	< 0.00027	< 0.00027	< 0.00027	< 0.00027
TUNGSTEN	< 0.00052	< 0.00055	< 0.00048	< 0.00055	< 0.00054	< 0.00055	< 0.00054
URANIUM	< 0.000052	< 0.000055	< 0.000048	< 0.000055	< 0.000054	< 0.000055	< 0.000054
VANADIUM	< 0.00016	< 0.00017	< 0.00014	< 0.00016	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.0000052	< 0.0000055	< 0.0000048	< 0.0000055	< 0.0000054	< 0.0000055	< 0.0000054
ZINC	< 0.00078	< 0.00083	< 0.00072	< 0.00082	< 0.00082	< 0.00082	< 0.00081
TOTAL DUST	< 0.017	< 0.018	< 0.016	< 0.018	< 0.018	**0.021**	**0.029**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371323	L371323	L371172	L371790	L371438	L371169	L371329
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/31/2016	3/31/2016	3/29/2016	4/5/2016	4/1/2016	3/29/2016	3/30/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0027	< 0.0025
ANTIMONY	< 0.00033	< 0.00032	< 0.00032	< 0.00031	< 0.00031	< 0.00032	< 0.0003
ARSENIC	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
BARIUM	< 0.000027	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000027	< 0.000025
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000027	< 0.0000026	< 0.0000026	< 0.0000027	< 0.0000025
BISMUTH	< 0.000027	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000027	< 0.000025
BORON	< 0.00054	< 0.00053	< 0.00053	< 0.00051	< 0.00051	< 0.00054	< 0.00049
CADMIUM	< 0.0000054	< 0.0000053	< 0.0000053	< 0.0000051	< 0.0000051	< 0.0000054	< 0.0000049
CALCIUM	< 0.027	< 0.027	< 0.027	< 0.026	< 0.026	< 0.027	< 0.025
CHROMIUM	< 0.0027	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0027	< 0.0025
COBALT	< 0.000016	< 0.000016	< 0.000016	< 0.000015	< 0.000015	< 0.000016	< 0.000015
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.0001	< 0.00011	< 0.000099
INDIUM	< 0.00027	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00027	< 0.00025
IRON	< 0.0027	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0027	< 0.0025
LANTHANUM	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
LEAD	< 0.000027	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000027	< 0.000025
LITHIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
MAGNESIUM	< 0.0027	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0027	< 0.0025
MANGANESE	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000027	< 0.000026	< 0.000026	< 0.000027	< 0.000025
NICKEL	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
PHOSPHORUS	< 0.0054	< 0.0053	< 0.0053	< 0.0051	< 0.0051	< 0.0054	< 0.0049
POTASSIUM	< 0.0054	< 0.0053	< 0.0053	< 0.0051	< 0.0051	< 0.0054	< 0.0049
SELENIUM	< 0.00082	< 0.0008	< 0.0008	< 0.00077	< 0.00077	< 0.00081	< 0.00074
SILICON	< 0.0027	< 0.0027	< 0.0027	< 0.0026	< 0.0026	< 0.0027	< 0.0025
SODIUM	< 0.027	< 0.027	< 0.027	< 0.026	< 0.026	< 0.027	< 0.025
STRONTIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
TELLURIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
THALLIUM	< 0.00027	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00027	< 0.00025
TITANIUM	< 0.00027	< 0.00027	< 0.00027	< 0.00026	< 0.00026	< 0.00027	< 0.00025
TUNGSTEN	< 0.00054	< 0.00053	< 0.00053	< 0.00051	< 0.00051	< 0.00054	< 0.00049
URANIUM	< 0.000054	< 0.000053	< 0.000053	< 0.000051	< 0.000051	< 0.000054	< 0.000049
VANADIUM	< 0.00016	< 0.00016	< 0.00016	< 0.00015	< 0.00015	< 0.00016	< 0.00015
YTTRIUM	< 0.0000054	< 0.0000053	< 0.0000053	< 0.0000051	< 0.0000051	< 0.0000054	< 0.0000049
ZINC	< 0.00082	< 0.0008	< 0.0008	< 0.00077	< 0.00077	< 0.00081	< 0.00074
TOTAL DUST	**0.054**	**0.047**	< 0.018	< 0.017	< 0.017	< 0.018	**0.018**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371438	L371329	L371169	L371657	L371933	L371933	L371790
Location	Residence	Residence	Residence	Residence	Residence	Res-Ext	Residence
Date Sampled	4/1/2016	3/30/2016	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016
ALUMINUM	< 0.0025	< 0.0025	< 0.0027	< 0.0027	< 0.0026	< 0.0027	< 0.0026
ANTIMONY	< 0.0003	< 0.0003	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
ARSENIC	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
BARIUM	< 0.000025	< 0.000025	< 0.000027	**0.00045**	< 0.000026	**0.000036**	< 0.000026
BERYLLIUM	< 0.0000025	< 0.0000025	< 0.0000027	< 0.0000027	< 0.0000026	< 0.0000027	< 0.0000026
BISMUTH	< 0.000025	< 0.000025	< 0.000027	< 0.000027	< 0.000026	< 0.000027	< 0.000026
BORON	< 0.0005	< 0.0005	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
CADMIUM	< 0.000005	< 0.000005	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000053
CALCIUM	< 0.025	< 0.025	< 0.027	< 0.027	< 0.026	< 0.027	< 0.026
CHROMIUM	< 0.0025	< 0.0025	< 0.0027	< 0.0027	< 0.0026	< 0.0027	< 0.0026
COBALT	< 0.000015	< 0.000015	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.000099	< 0.0001	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
INDIUM	< 0.00025	< 0.00025	< 0.00027	< 0.00027	< 0.00026	< 0.00027	< 0.00026
IRON	< 0.0025	< 0.0025	< 0.0027	< 0.0027	< 0.0026	< 0.0027	< 0.0026
LANTHANUM	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
LEAD	< 0.000025	< 0.000025	< 0.000027	< 0.000027	< 0.000026	< 0.000027	< 0.000026
LITHIUM	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
MAGNESIUM	< 0.0025	< 0.0025	< 0.0027	< 0.0027	< 0.0026	< 0.0027	< 0.0026
MANGANESE	< 0.00005	< 0.00005	< 0.000053	**0.00016**	< 0.000053	< 0.000053	< 0.000053
MOLYBDENUM	< 0.000025	< 0.000025	< 0.000027	< 0.000027	< 0.000026	< 0.000027	< 0.000026
NICKEL	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
PHOSPHORUS	< 0.005	< 0.005	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
POTASSIUM	< 0.005	< 0.005	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
SELENIUM	< 0.00074	< 0.00075	< 0.0008	< 0.0008	< 0.00079	< 0.0008	< 0.00079
SILICON	< 0.0025	< 0.0025	< 0.0027	< 0.0027	< 0.0026	< 0.0027	< 0.0026
SODIUM	< 0.025	< 0.025	< 0.027	< 0.027	< 0.026	< 0.027	< 0.026
STRONTIUM	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
TELLURIUM	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
THALLIUM	< 0.00025	< 0.00025	< 0.00027	< 0.00027	< 0.00026	< 0.00027	< 0.00026
TITANIUM	< 0.00025	< 0.00025	< 0.00027	< 0.00027	< 0.00026	< 0.00027	< 0.00026
TUNGSTEN	< 0.0005	< 0.0005	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
URANIUM	< 0.00005	< 0.00005	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
VANADIUM	< 0.00015	< 0.00015	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.000005	< 0.000005	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000053	< 0.0000053
ZINC	< 0.00074	< 0.00075	< 0.0008	< 0.0008	< 0.00079	< 0.0008	< 0.00079
TOTAL DUST	**0.032**	< 0.017	**0.018**	**0.068**	< 0.018	**0.039**	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371790	L371169	L371790	L371438	L371323	L371790	L371790
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/5/2016	3/29/2016	4/5/2016	4/1/2016	3/31/2016	4/5/2016	4/5/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0027	< 0.0025	< 0.0026	< 0.0026	< 0.0025
ANTIMONY	< 0.00032	< 0.00033	< 0.00032	< 0.0003	< 0.00032	< 0.00031	< 0.0003
ARSENIC	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
BARIUM	< 0.000027	< 0.000027	< 0.000027	< 0.000025	< 0.000026	< 0.000026	< 0.000025
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000027	< 0.0000025	< 0.0000026	< 0.0000026	< 0.0000025
BISMUTH	< 0.000027	< 0.000027	< 0.000027	< 0.000025	< 0.000026	< 0.000026	< 0.000025
BORON	< 0.00054	< 0.00055	< 0.00053	< 0.0005	< 0.00053	< 0.00051	< 0.0005
CADMIUM	< 0.0000054	< 0.0000055	< 0.0000053	< 0.000005	< 0.0000053	< 0.0000051	< 0.000005
CALCIUM	< 0.027	< 0.027	< 0.027	< 0.025	< 0.026	< 0.026	< 0.025
CHROMIUM	< 0.0027	< 0.0027	< 0.0027	< 0.0025	< 0.0026	< 0.0026	< 0.0025
COBALT	< 0.000016	< 0.000016	< 0.000016	< 0.000015	< 0.000016	< 0.000015	< 0.000015
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.0001	< 0.0001
INDIUM	< 0.00027	< 0.00027	< 0.00027	< 0.00025	< 0.00026	< 0.00026	< 0.00025
IRON	< 0.0027	< 0.0027	< 0.0027	< 0.0025	< 0.0026	< 0.0026	< 0.0025
LANTHANUM	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
LEAD	< 0.000027	< 0.000027	< 0.000027	< 0.000025	< 0.000026	< 0.000026	< 0.000025
LITHIUM	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
MAGNESIUM	< 0.0027	< 0.0027	< 0.0027	< 0.0025	< 0.0026	< 0.0026	< 0.0025
MANGANESE	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000027	< 0.000025	< 0.000026	< 0.000026	< 0.000025
NICKEL	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
PHOSPHORUS	< 0.0054	< 0.0055	< 0.0053	< 0.005	< 0.0053	< 0.0051	< 0.005
POTASSIUM	< 0.0054	< 0.0055	< 0.0053	< 0.005	< 0.0053	< 0.0051	< 0.005
SELENIUM	< 0.00081	< 0.00082	< 0.0008	< 0.00076	< 0.00079	< 0.00077	< 0.00075
SILICON	< 0.0027	< 0.0027	< 0.0027	< 0.0025	< 0.0026	< 0.0026	< 0.0025
SODIUM	< 0.027	< 0.027	< 0.027	< 0.025	< 0.026	< 0.026	< 0.025
STRONTIUM	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
TELLURIUM	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
THALLIUM	< 0.00027	< 0.00027	< 0.00027	< 0.00025	< 0.00026	< 0.00026	< 0.00025
TITANIUM	< 0.00027	< 0.00027	< 0.00027	< 0.00025	< 0.00026	< 0.00026	< 0.00025
TUNGSTEN	< 0.00054	< 0.00055	< 0.00053	< 0.0005	< 0.00053	< 0.00051	< 0.0005
URANIUM	< 0.000054	< 0.000055	< 0.000053	< 0.00005	< 0.000053	< 0.000051	< 0.00005
VANADIUM	< 0.00016	< 0.00016	< 0.00016	< 0.00015	< 0.00016	< 0.00015	< 0.00015
YTTRIUM	< 0.0000054	< 0.0000055	< 0.0000053	< 0.000005	< 0.0000053	< 0.0000051	< 0.000005
ZINC	< 0.00081	< 0.00082	< 0.0008	< 0.00076	< 0.00079	< 0.00077	< 0.00075
TOTAL DUST	**0.026**	< 0.018	< 0.018	< 0.017	< 0.018	< 0.017	< 0.017

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371323	L371657	L371933	L371329	L371169	L371169	L371790
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/31/2016	4/4/2016	4/6/2016	3/30/2016	3/29/2016	3/29/2016	4/5/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0029	< 0.0025	< 0.0027	< 0.0027	< 0.0027
ANTIMONY	< 0.00033	< 0.00032	< 0.00034	< 0.0003	< 0.00032	< 0.00032	< 0.00032
ARSENIC	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
BARIUM	< 0.000027	< 0.000027	< 0.000029	< 0.000025	< 0.000027	< 0.000027	< 0.000027
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000029	< 0.0000025	< 0.0000027	< 0.0000027	< 0.0000027
BISMUTH	< 0.000027	< 0.000027	< 0.000029	< 0.000025	< 0.000027	< 0.000027	< 0.000027
BORON	< 0.00055	< 0.00053	< 0.00057	< 0.0005	< 0.00054	< 0.00054	< 0.00053
CADMIUM	< 0.0000055	< 0.0000053	< 0.0000057	< 0.000005	< 0.0000054	< 0.0000054	< 0.0000053
CALCIUM	< 0.027	< 0.027	< 0.029	< 0.025	< 0.027	< 0.027	< 0.027
CHROMIUM	< 0.0027	< 0.0027	< 0.0029	< 0.0025	< 0.0027	< 0.0027	< 0.0027
COBALT	< 0.000016	< 0.000016	< 0.000017	< 0.000015	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.00011	< 0.00011	< 0.00011	< 0.0001	< 0.00011	< 0.00011	< 0.00011
INDIUM	< 0.00027	< 0.00027	< 0.00029	< 0.00025	< 0.00027	< 0.00027	< 0.00027
IRON	< 0.0027	< 0.0027	< 0.0029	< 0.0025	< 0.0027	< 0.0027	< 0.0027
LANTHANUM	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
LEAD	< 0.000027	< 0.000027	< 0.000029	< 0.000025	< 0.000027	< 0.000027	< 0.000027
LITHIUM	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
MAGNESIUM	< 0.0027	< 0.0027	< 0.0029	< 0.0025	< 0.0027	< 0.0027	< 0.0027
MANGANESE	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000029	< 0.000025	< 0.000027	< 0.000027	< 0.000027
NICKEL	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
PHOSPHORUS	< 0.0055	< 0.0053	< 0.0057	< 0.005	< 0.0054	< 0.0054	< 0.0053
POTASSIUM	< 0.0055	< 0.0053	< 0.0057	< 0.005	< 0.0054	< 0.0054	< 0.0053
SELENIUM	< 0.00082	< 0.0008	< 0.00086	< 0.00075	< 0.00081	< 0.0008	< 0.0008
SILICON	< 0.0027	< 0.0027	< 0.0029	< 0.0025	< 0.0027	< 0.0027	< 0.0027
SODIUM	< 0.027	< 0.027	< 0.029	< 0.025	< 0.027	< 0.027	< 0.027
STRONTIUM	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
TELLURIUM	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
THALLIUM	< 0.00027	< 0.00027	< 0.00029	< 0.00025	< 0.00027	< 0.00027	< 0.00027
TITANIUM	< 0.00027	< 0.00027	< 0.00029	< 0.00025	< 0.00027	< 0.00027	< 0.00027
TUNGSTEN	< 0.00055	< 0.00053	< 0.00057	< 0.0005	< 0.00054	< 0.00054	< 0.00053
URANIUM	< 0.000055	< 0.000053	< 0.000057	< 0.00005	< 0.000054	< 0.000054	< 0.000053
VANADIUM	< 0.00016	< 0.00016	< 0.00017	< 0.00015	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.0000055	< 0.0000053	< 0.0000057	< 0.000005	< 0.0000054	< 0.0000054	< 0.0000053
ZINC	< 0.00082	< 0.0008	< 0.00086	< 0.00075	< 0.00081	< 0.0008	< 0.0008
TOTAL DUST	< 0.018	< 0.018	**0.023**	< 0.017	< 0.018	< 0.018	< 0.018

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371933	L371933	L371936	L371933	L371933	L371933
Location	Residence	Residence	Residence	School	School-Ext	School
Date Sampled	4/6/2016	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/7/2016
ALUMINUM	< 0.0028	< 0.0028	< 0.0026	< 0.01	< 0.01	< 0.01
ANTIMONY	< 0.00033	< 0.00033	< 0.00031	< 0.0012	< 0.0012	< 0.0013
ARSENIC	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
BARIUM	< 0.000028	< 0.000028	< 0.000026	< 0.0001	< 0.0001	< 0.0001
BERYLLIUM	< 0.0000028	< 0.0000028	< 0.0000026	< 0.00001	< 0.00001	< 0.00001
BISMUTH	< 0.000028	< 0.000028	< 0.000026	< 0.0001	< 0.0001	< 0.0001
BORON	< 0.00055	< 0.00055	< 0.00052	< 0.002	< 0.002	< 0.0021
CADMIUM	< 0.0000055	< 0.0000055	< 0.0000052	< 0.00002	< 0.00002	< 0.000021
CALCIUM	< 0.028	< 0.028	< 0.026	< 0.1	< 0.1	< 0.1
CHROMIUM	< 0.0028	< 0.0028	< 0.0026	< 0.01	< 0.01	< 0.01
COBALT	< 0.000017	< 0.000017	< 0.000016	< 0.00006	< 0.00006	< 0.000063
COPPER	< 0.00011	< 0.00011	< 0.0001	< 0.0004	< 0.0004	< 0.00042
INDIUM	< 0.00028	< 0.00028	< 0.00026	< 0.001	< 0.001	< 0.001
IRON	< 0.0028	< 0.0028	< 0.0026	< 0.01	< 0.01	< 0.01
LANTHANUM	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
LEAD	< 0.000028	< 0.000028	< 0.000026	< 0.0001	< 0.0001	< 0.0001
LITHIUM	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
MAGNESIUM	< 0.0028	< 0.0028	< 0.0026	< 0.01	< 0.01	< 0.01
MANGANESE	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
MOLYBDENUM	< 0.000028	< 0.000028	< 0.000026	< 0.0001	< 0.0001	< 0.0001
NICKEL	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
PHOSPHORUS	< 0.0055	< 0.0055	< 0.0052	< 0.02	< 0.02	< 0.021
POTASSIUM	< 0.0055	< 0.0055	< 0.0052	< 0.02	< 0.02	< 0.021
SELENIUM	< 0.00083	< 0.00083	< 0.00078	< 0.003	< 0.003	< 0.0031
SILICON	< 0.0028	< 0.0028	< 0.0026	< 0.01	< 0.01	< 0.01
SODIUM	< 0.028	< 0.028	< 0.026	< 0.1	< 0.1	< 0.1
STRONTIUM	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
TELLURIUM	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
THALLIUM	< 0.00028	< 0.00028	< 0.00026	< 0.001	< 0.001	< 0.001
TITANIUM	< 0.00028	< 0.00028	< 0.00026	< 0.001	< 0.001	< 0.001
TUNGSTEN	< 0.00055	< 0.00055	< 0.00052	< 0.002	< 0.002	< 0.0021
URANIUM	< 0.000055	< 0.000055	< 0.000052	< 0.0002	< 0.0002	< 0.00021
VANADIUM	< 0.00017	< 0.00017	< 0.00016	< 0.0006	< 0.0006	< 0.00063
YTTRIUM	< 0.0000055	< 0.0000055	< 0.0000052	< 0.00002	< 0.00002	< 0.000021
ZINC	< 0.00083	< 0.00083	< 0.00078	< 0.003	< 0.003	< 0.0031
TOTAL DUST	**0.1**	**0.1**	**0.025**	< 0.066	**0.078**	< 0.069

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371933	L371933	L371933	L371933	L371438	L371329	L371329
Location	School	School-Dup	School	School	Control	Control	Control-Dup
Date Sampled	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/1/2016	3/30/2016	3/30/2016
ALUMINUM	< 0.0075	< 0.0075	< 0.0079	< 0.0077	< 0.0025	< 0.0025	< 0.0025
ANTIMONY	< 0.00089	< 0.00089	< 0.00095	< 0.00093	< 0.0003	< 0.0003	< 0.0003
ARSENIC	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
BARIUM	< 0.000075	< 0.000075	< 0.000079	< 0.000077	< 0.000025	< 0.000025	< 0.000025
BERYLLIUM	< 0.0000075	< 0.0000075	< 0.0000079	< 0.0000077	< 0.0000025	< 0.0000025	< 0.0000025
BISMUTH	< 0.000075	< 0.000075	< 0.000079	< 0.000077	< 0.000025	< 0.000025	< 0.000025
BORON	< 0.0015	< 0.0015	< 0.0016	< 0.0015	< 0.0005	< 0.0005	< 0.00051
CADMIUM	< 0.000015	< 0.000015	< 0.000016	< 0.000015	< 0.000005	< 0.000005	< 0.0000051
CALCIUM	< 0.075	< 0.075	< 0.079	< 0.077	< 0.025	< 0.025	< 0.025
CHROMIUM	< 0.0075	< 0.0075	< 0.0079	< 0.0077	< 0.0025	< 0.0025	< 0.0025
COBALT	< 0.000045	< 0.000045	< 0.000047	< 0.000046	< 0.000015	< 0.000015	< 0.000015
COPPER	< 0.0003	< 0.0003	< 0.00032	< 0.00031	< 0.0001	< 0.0001	< 0.0001
INDIUM	< 0.00075	< 0.00075	< 0.00079	< 0.00077	< 0.00025	< 0.00025	< 0.00025
IRON	< 0.0075	< 0.0075	< 0.0079	< 0.0077	< 0.0025	< 0.0025	< 0.0025
LANTHANUM	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
LEAD	< 0.000075	< 0.000075	< 0.000079	< 0.000077	< 0.000025	< 0.000025	< 0.000025
LITHIUM	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
MAGNESIUM	< 0.0075	< 0.0075	< 0.0079	< 0.0077	< 0.0025	< 0.0025	< 0.0025
MANGANESE	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
MOLYBDENUM	< 0.000075	< 0.000075	< 0.000079	< 0.000077	< 0.000025	< 0.000025	< 0.000025
NICKEL	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
PHOSPHORUS	< 0.015	< 0.015	< 0.016	< 0.015	< 0.005	< 0.005	< 0.0051
POTASSIUM	< 0.015	< 0.015	< 0.016	< 0.015	< 0.005	< 0.005	< 0.0051
SELENIUM	< 0.0022	< 0.0022	< 0.0024	< 0.0023	< 0.00076	< 0.00076	< 0.00076
SILICON	< 0.0075	< 0.0075	< 0.0079	< 0.0077	< 0.0025	< 0.0025	< 0.0025
SODIUM	< 0.075	< 0.075	< 0.079	< 0.077	< 0.025	< 0.025	< 0.025
STRONTIUM	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
TELLURIUM	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
THALLIUM	< 0.00075	< 0.00075	< 0.00079	< 0.00077	< 0.00025	< 0.00025	< 0.00025
TITANIUM	< 0.00075	< 0.00075	< 0.00079	< 0.00077	< 0.00025	< 0.00025	< 0.00025
TUNGSTEN	< 0.0015	< 0.0015	< 0.0016	< 0.0015	< 0.0005	< 0.0005	< 0.00051
URANIUM	< 0.00015	< 0.00015	< 0.00016	< 0.00015	< 0.00005	< 0.00005	< 0.000051
VANADIUM	< 0.00045	< 0.00045	< 0.00047	< 0.00046	< 0.00015	< 0.00015	< 0.00015
YTTRIUM	< 0.000015	< 0.000015	< 0.000016	< 0.000015	< 0.000005	< 0.000005	< 0.0000051
ZINC	< 0.0022	< 0.0022	< 0.0024	< 0.0023	< 0.00076	< 0.00076	< 0.00076
TOTAL DUST	< 0.05	< 0.05	< 0.053	< 0.052	< 0.017	**0.017**	**0.027**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371438	L371790	L371790	L371438	L371933	L371933	L371933
Location	Control	Control	Control	Control	Control	Control-Ext	Control
Date Sampled	4/1/2016	4/5/2016	4/5/2016	4/1/2016	4/6/2016	4/6/2016	4/6/2016
ALUMINUM	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0026	< 0.0026	< 0.0026
ANTIMONY	< 0.00033	< 0.00031	< 0.00031	< 0.0003	< 0.00032	< 0.00032	< 0.00031
ARSENIC	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
BARIUM	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000026	< 0.000026	< 0.000026
BERYLLIUM	< 0.0000027	< 0.0000026	< 0.0000026	< 0.0000025	< 0.0000026	< 0.0000026	< 0.0000026
BISMUTH	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000026	< 0.000026	< 0.000026
BORON	< 0.00055	< 0.00052	< 0.00052	< 0.0005	< 0.00053	< 0.00053	< 0.00052
CADMIUM	< 0.0000055	< 0.0000052	< 0.0000052	**0.0000056**	< 0.0000053	< 0.0000053	< 0.0000052
CALCIUM	< 0.027	< 0.026	< 0.026	< 0.025	< 0.026	< 0.026	< 0.026
CHROMIUM	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0026	< 0.0026	< 0.0026
COBALT	< 0.000016	< 0.000015	< 0.000015	< 0.000015	< 0.000016	< 0.000016	< 0.000016
COPPER	< 0.00011	< 0.0001	< 0.0001	< 0.0001	< 0.00011	< 0.00011	< 0.0001
INDIUM	< 0.00027	< 0.00026	< 0.00026	< 0.00025	< 0.00026	< 0.00026	< 0.00026
IRON	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0026	< 0.0026	< 0.0026
LANTHANUM	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
LEAD	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000026	< 0.000026	< 0.000026
LITHIUM	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
MAGNESIUM	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0026	< 0.0026	< 0.0026
MANGANESE	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
MOLYBDENUM	< 0.000027	< 0.000026	< 0.000026	< 0.000025	< 0.000026	< 0.000026	< 0.000026
NICKEL	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
PHOSPHORUS	< 0.0055	< 0.0052	< 0.0052	< 0.005	< 0.0053	< 0.0053	< 0.0052
POTASSIUM	< 0.0055	< 0.0052	< 0.0052	< 0.005	< 0.0053	< 0.0053	< 0.0052
SELENIUM	< 0.00082	< 0.00077	< 0.00077	< 0.00076	< 0.00079	< 0.00079	< 0.00079
SILICON	< 0.0027	< 0.0026	< 0.0026	< 0.0025	< 0.0026	< 0.0026	< 0.0026
SODIUM	< 0.027	< 0.026	< 0.026	< 0.025	< 0.026	< 0.026	< 0.026
STRONTIUM	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
TELLURIUM	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
THALLIUM	< 0.00027	< 0.00026	< 0.00026	< 0.00025	< 0.00026	< 0.00026	< 0.00026
TITANIUM	< 0.00027	< 0.00026	< 0.00026	< 0.00025	< 0.00026	< 0.00026	< 0.00026
TUNGSTEN	< 0.00055	< 0.00052	< 0.00052	< 0.0005	< 0.00053	< 0.00053	< 0.00052
URANIUM	< 0.000055	< 0.000052	< 0.000052	< 0.00005	< 0.000053	< 0.000053	< 0.000052
VANADIUM	< 0.00016	< 0.00015	< 0.00015	< 0.00015	< 0.00016	< 0.00016	< 0.00016
YTTRIUM	< 0.0000055	< 0.0000052	< 0.0000052	< 0.000005	< 0.0000053	< 0.0000053	< 0.0000052
ZINC	< 0.00082	< 0.00077	< 0.00077	< 0.00076	< 0.00079	< 0.00079	< 0.00079
TOTAL DUST	**0.018**	< 0.017	**0.052**	**0.019**	< 0.018	**0.028**	**0.02**

Table 3: Air Samples - Metals and Total Dust

Analytical Method: NIOSH Method 7300; Units: micrograms per cubic meter (µg/m^3)

Results file ID	L371657	L371657	L371938
Location	Control	Control-Ext	Control
Date Sampled	4/4/2016	4/4/2016	4/7/2016
ALUMINUM	< 0.0027	< 0.0027	< 0.0025
ANTIMONY	< 0.00032	< 0.00032	< 0.0003
ARSENIC	< 0.000054	< 0.000054	< 0.00005
BARIUM	< 0.000027	< 0.000027	< 0.000025
BERYLLIUM	< 0.0000027	< 0.0000027	< 0.0000025
BISMUTH	< 0.000027	< 0.000027	< 0.000025
BORON	< 0.00054	< 0.00054	< 0.0005
CADMIUM	< 0.0000054	< 0.0000054	< 0.000005
CALCIUM	< 0.027	< 0.027	< 0.025
CHROMIUM	< 0.0027	< 0.0027	< 0.0025
COBALT	< 0.000016	< 0.000016	< 0.000015
COPPER	< 0.00011	< 0.00011	< 0.0001
INDIUM	< 0.00027	< 0.00027	< 0.00025
IRON	< 0.0027	< 0.0027	< 0.0025
LANTHANUM	< 0.000054	< 0.000054	< 0.00005
LEAD	< 0.000027	< 0.000027	< 0.000025
LITHIUM	< 0.000054	< 0.000054	< 0.00005
MAGNESIUM	< 0.0027	< 0.0027	< 0.0025
MANGANESE	< 0.000054	< 0.000054	< 0.00005
MOLYBDENUM	< 0.000027	< 0.000027	< 0.000025
NICKEL	< 0.000054	< 0.000054	< 0.00005
PHOSPHORUS	< 0.0054	< 0.0054	< 0.005
POTASSIUM	< 0.0054	< 0.0054	< 0.005
SELENIUM	< 0.00081	< 0.0008	< 0.00075
SILICON	< 0.0027	< 0.0027	< 0.0025
SODIUM	< 0.027	< 0.027	< 0.025
STRONTIUM	< 0.000054	< 0.000054	< 0.00005
TELLURIUM	< 0.000054	< 0.000054	< 0.00005
THALLIUM	< 0.00027	< 0.00027	< 0.00025
TITANIUM	< 0.00027	< 0.00027	< 0.00025
TUNGSTEN	< 0.00054	< 0.00054	< 0.0005
URANIUM	< 0.000054	< 0.000054	< 0.00005
VANADIUM	< 0.00016	< 0.00016	< 0.00015
YTTRIUM	< 0.0000054	< 0.0000054	< 0.000005
ZINC	< 0.00081	< 0.0008	< 0.00075
TOTAL DUST	< 0.018	< 0.018	**0.08**

Notes:

Res: Residence Dup: Duplicate

Ctrl: Control Ext: Exterior (outdoors)

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601832	P1601717	P1601803	P1601803	P1601805	P1601804
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
111-Trichloroethane (TCA)	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
1122-Tetrachloroethane	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
112-Trichloroethane	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
112-Trichlorotrifluoroethane	0.48	**0.43**	**0.49**	**0.48**	**0.48**	**0.46**
11-Dichloroethane (11-DCA)	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
11-Dichloroethene (11-DCE)	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
124-Trichlorobenzene	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
124-Trimethylbenzene	0.39 J	**6.7**	**1.5**	**1.4**	< 0.97	< 1.2
12-Dibromo 3-Chloropropane	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
12-Dibromoethane	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
12-Dichlorobenzene	< 0.21	**0.51**	< 0.19	< 0.22	< 0.19	< 0.24
12-Dichloroethane	1.3	**2.5**	**0.21**	< 0.22	**0.46**	< 0.24
12-Dichloropropane	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
135-Trimethylbenzene	< 1	**1.8**	**0.42 J**	**0.41 J**	< 0.97	< 1.2
13-Butadiene	< 0.41	< 0.27	< 0.39	< 0.43	< 0.39	< 0.48
13-Dichlorobenzene	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
14-Dichlorobenzene	< 0.21	**1500 D**	**0.15 J**	< 0.22	< 0.19	< 0.24
14-Dioxane	< 1	**1.1**	< 0.97	< 1.1	< 0.97	< 1.2
2-Butanone (MEK)	2.1 J	**1.9 J**	**1.6 J**	**1.7 J**	**2.2 J**	**3.7 J**
2-Hexanone	0.34 J	**0.44 J**	< 0.97	< 1.1	< 0.97	**0.43 J**
2-Propanol (Isopropyl Alcohol)	150	**18**	**5.6 J**	**7.6 J**	**21**	**5.8 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
4-Ethyltoluene	< 1	**1.9**	**0.47 J**	**0.47 J**	< 0.97	< 1.2
4-Methyl-2-pentanone	0.36 J	**1.3**	< 0.97	< 1.1	< 0.97	< 1.2
Acetone	45	**64**	**39**	**46**	**18**	**30**
Acetonitrile	< 1	**3.8**	< 0.97	< 1.1	**0.58 J**	< 1.2
Acrolein	2.5 J	**1.2 J**	**1.8 J**	**1.9 J**	**0.97 J**	**3.2 J**
Acrylonitrile	< 1	**1.4**	< 0.97	< 1.1	< 0.97	< 1.2
alpha-Pinene	2.6	**2.8**	**3.6**	**3.8**	**0.54 J**	**1.2**
Benzene	1.1	**1.2**	**1.8**	**1.7**	**2**	**0.55**
Benzyl Chloride	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
Bromodichloromethane	0.18 J	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
Bromoform	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
Bromomethane	< 0.41	< 0.27	< 0.39	< 0.43	< 0.39	< 0.48
Carbon Disulfide	< 10	< 6.7	< 9.7	< 11	**0.4 J**	< 12
Carbon Tetrachloride	0.43	**0.51**	**0.46**	**0.48**	**0.46**	**0.47**
Chlorobenzene	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
Chloroethane	< 0.41	< 0.27	< 0.39	< 0.43	< 0.39	< 0.48
Chloroform	0.34	**0.23**	**0.21**	**0.22**	< 0.19	< 0.24
Chloromethane	0.61	**0.6**	**0.51**	**0.44**	**0.53**	**0.66**
cis-12-Dichloroethene	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
cis-13-Dichloropropene	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
Cyclohexane	< 2.1	**0.51 J**	**0.76 J**	**0.7 J**	< 1.9	< 2.4
Dibromochloromethane	0.3	**0.2**	< 0.19	< 0.22	< 0.19	< 0.24
Dichlorodifluoromethane (CFC 12)	2.1	**1.9**	**2**	**2.1**	**2.1**	**1.9**
Dichloromethane (Methylene Chloride)	38	**39**	**8.6 B**	**38**	**98**	**100**
d-Limonene	29	**24**	**5.2**	**5.3**	**2.4**	**1.1 J**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601832	P1601717	P1601803	P1601803	P1601805	P1601804
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
Ethanol	510	**730 D**	**51**	**53**	**83**	**53**
Ethyl Acetate	33	**13**	**5.2**	**17**	**380**	**2 J**
Ethylbenzene	0.4 J	**1.5**	**1.5**	**1.4**	**0.31 J**	**0.42 J**
Hexachlorobutadiene	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
Isopropylbenzene (Cumene)	< 1	**0.3 J**	< 0.97	< 1.1	**2.9**	< 1.2
mp-Xylenes	1.3	**4.6**	**6.1**	**5.7**	**0.92 J**	**1.1 J**
Methyl Methacrylate	< 2.1	< 1.3	< 1.9	< 2.2	< 1.9	< 2.4
Methyl tert-Butyl Ether	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
Naphthalene	< 1	**2.3**	< 0.97	< 1.1	< 0.97	< 1.2
n-Butyl Acetate	2.4	**1.4**	**1.3**	**1.4**	**0.75 J**	< 1.2
n-Heptane	3.3	**0.91**	**1.7**	**1.6**	**0.55 J**	< 1.2
n-Hexane	0.62 J	**0.53 J**	**2.1**	**2**	**0.62 J**	**0.38 J**
n-Nonane	0.35 J	**4.1**	**0.33 J**	**0.37 J**	**0.35 J**	**0.58 J**
n-Octane	< 1	**1.2**	**0.72 J**	**0.65 J**	< 0.97	< 1.2
n-Propylbenzene	< 1	**1**	< 0.97	< 1.1	< 0.97	< 1.2
o-Xylene	0.43 J	**2**	**2**	**1.8**	**0.34 J**	**0.36 J**
Propene	75	**6.6**	**2.7**	**2.8**	**10**	**3.4**
Styrene	0.35 J	**0.32 J**	**0.61 J**	**0.61 J**	< 0.97	**0.7 J**
Tetrachloroethene	< 0.21	**0.71**	< 0.19	**0.22**	**1.4**	**0.18 J**
Tetrahydrofuran (THF)	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
Toluene	2.5	**4.2**	**10**	**10**	**7.4**	**1.6**
trans-12-Dichloroethene	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
trans-13-Dichloropropene	< 1	< 0.67	< 0.97	< 1.1	< 0.97	< 1.2
Trichloroethene (TCE)	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24
Trichlorofluoromethane (CFC 11)	1.1	**0.92**	**1.1**	**1.1**	**1.1**	**1**
Vinyl Acetate	3.4 J	< 6.7	< 9.7	< 11	**9.4 J**	**3.5 J**
Vinyl Chloride	< 0.21	< 0.13	< 0.19	< 0.22	< 0.19	< 0.24

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601803	P1601689	P1601737	P1601690	P1601737	P1601737
Location	Residence	Residence	Residence	Residence	Residence	Res Dup
Date Sampled	4/4/2016	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016
111-Trichloroethane (TCA)	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
1122-Tetrachloroethane	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
112-Trichloroethane	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
112-Trichlorotrifluoroethane	**0.48**	**0.48**	**0.5**	**0.52**	**0.52**	**0.49**
11-Dichloroethane (11-DCA)	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
11-Dichloroethene (11-DCE)	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
124-Trichlorobenzene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
124-Trimethylbenzene	**0.37 J**	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
12-Dibromo 3-Chloropropane	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
12-Dibromoethane	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
12-Dichlorobenzene	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
12-Dichloroethane	**0.16 J**	**0.15**	**0.2**	**0.15 J**	**0.18 J**	**0.17 J**
12-Dichloropropane	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
135-Trimethylbenzene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
13-Butadiene	< 0.44	< 0.26	< 0.38	< 0.37	< 0.38	< 0.46
13-Dichlorobenzene	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
14-Dichlorobenzene	< 0.22	< 0.13	< 0.19	< 0.18	**0.67**	**0.62**
14-Dioxane	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
2-Butanone (MEK)	**3.4 J**	**1.6 J**	**1.9 J**	**1.2 J**	**1.9 J**	**2.4 J**
2-Hexanone	**0.53 J**	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
2-Propanol (Isopropyl Alcohol)	**35**	**3 J**	**1.4 J**	**1.5 J**	**6.8 J**	**6.9 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
4-Ethyltoluene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
4-Methyl-2-pentanone	**0.42 J**	< 0.65	< 0.94	**0.87 J**	**0.38 J**	**0.4 J**
Acetone	**120**	**15**	**19**	**14**	**22**	**22**
Acetonitrile	< 1.1	< 0.65	< 0.94	**0.86 J**	< 0.95	< 1.2
Acrolein	**2.5 J**	**1.6 J**	**1.5 J**	**0.82 J**	**1.6 J**	**2.1 J**
Acrylonitrile	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
alpha-Pinene	**4.7**	**0.35 J**	**0.55 J**	**0.33 J**	**1.5**	**1.5**
Benzene	**0.48**	**0.33**	**0.72**	**0.58**	**0.72**	**0.78**
Benzyl Chloride	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
Bromodichloromethane	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
Bromoform	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
Bromomethane	< 0.44	< 0.26	< 0.38	< 0.37	< 0.38	< 0.46
Carbon Disulfide	**0.58 J**	< 6.5	**2.3 J**	< 9.2	**0.62 J**	**1.7 J**
Carbon Tetrachloride	**0.46**	**0.39**	**0.47**	**0.47**	**0.46**	**0.47**
Chlorobenzene	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
Chloroethane	< 0.44	< 0.26	< 0.38	< 0.37	< 0.38	< 0.46
Chloroform	**0.24**	< 0.13	**0.18 J**	< 0.18	**0.22**	**0.22 J**
Chloromethane	**0.42 J**	**0.51**	**0.51**	**0.5**	**0.52**	**0.56**
cis-12-Dichloroethene	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
cis-13-Dichloropropene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
Cyclohexane	< 2.2	< 1.3	< 1.9	< 1.8	< 1.9	< 2.3
Dibromochloromethane	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
Dichlorodifluoromethane (CFC 12)	**2**	**2**	**2.1**	**2.2**	**2.1**	**2.1**
Dichloromethane (Methylene Chloride)	**64**	**280 B, D**	**27**	**9.8**	**90**	**100**
d-Limonene	**6.7**	**0.57 J**	**1.8**	**2.3**	**7**	**7.6**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601803	P1601689	P1601737	P1601690	P1601737	P1601737
Location	Residence	Residence	Residence	Residence	Residence	Res Dup
Date Sampled	4/4/2016	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016
Ethanol	**140**	**23**	**68**	**200**	**86**	**86**
Ethyl Acetate	**7.5**	**13**	**2.9**	**6.4**	**5.1**	**6.4**
Ethylbenzene	**0.39 J**	< 0.65	< 0.94	< 0.92	**0.38 J**	**0.41 J**
Hexachlorobutadiene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
Isopropylbenzene (Cumene)	**1.7**	< 0.65	**0.52 J**	< 0.92	< 0.95	**3.5**
mp-Xylenes	**0.99 J**	< 0.65	**0.68 J**	**0.63 J**	**0.91 J**	**0.99 J**
Methyl Methacrylate	< 2.2	< 1.3	< 1.9	< 1.8	< 1.9	< 2.3
Methyl tert-Butyl Ether	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
Naphthalene	**0.56 J**	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
n-Butyl Acetate	**3.6**	< 0.65	**0.64 J**	**0.65 J**	**2.2**	**2**
n-Heptane	< 1.1	**0.3 J**	< 0.94	< 0.92	**0.35 J**	< 1.2
n-Hexane	< 1.1	**0.26 J**	**0.45 J**	**0.38 J**	**0.53 J**	**0.54 J**
n-Nonane	< 1.1	< 0.65	**0.46 J**	< 0.92	**2.6**	**2.7**
n-Octane	< 1.1	< 0.65	< 0.94	< 0.92	**0.48 J**	**0.55 J**
n-Propylbenzene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
o-Xylene	**0.38 J**	< 0.65	**0.29 J**	< 0.92	**0.34 J**	**0.38 J**
Propene	**15**	**1.8**	< 0.94	**1.8**	**2.6**	**4.4**
Styrene	**0.57 J**	< 0.65	< 0.94	< 0.92	**0.42 J**	**0.43 J**
Tetrachloroethene	**1.1**	**0.86**	< 0.19	< 0.18	**0.18 J**	**0.18 J**
Tetrahydrofuran (THF)	< 1.1	**0.8**	< 0.94	< 0.92	< 0.95	< 1.2
Toluene	**1.5**	**1.9**	**1.3**	**1.1**	**1.9**	**1.9**
trans-12-Dichloroethene	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
trans-13-Dichloropropene	< 1.1	< 0.65	< 0.94	< 0.92	< 0.95	< 1.2
Trichloroethene (TCE)	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23
Trichlorofluoromethane (CFC 11)	**1.1**	**1**	**1.2**	**1.2**	**1.2**	**1.2**
Vinyl Acetate	**3.2 J**	**1.9 J**	**2.1 J**	**6 J**	**1.9 J**	**2.2 J**
Vinyl Chloride	< 0.22	< 0.13	< 0.19	< 0.18	< 0.19	< 0.23

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601737	P1601806	P1601806	P1601718	P1601719	P1601716
Location	Residence	Residence	Res Dup	Residence	Res Ext	Residence
Date Sampled	4/1/2016	4/4/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016
111-Trichloroethane (TCA)	< 0.2	< 0.24	< 0.15	**0.43**	< 0.21	< 0.13
1122-Tetrachloroethane	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
112-Trichloroethane	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
112-Trichlorotrifluoroethane	**0.49**	**1.1**	**0.47**	**0.49**	**0.48**	**0.53**
11-Dichloroethane (11-DCA)	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
11-Dichloroethene (11-DCE)	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
124-Trichlorobenzene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
124-Trimethylbenzene	**0.53 J**	**0.61 J**	**0.42 J**	**0.5 J**	**0.5 J**	**0.84**
12-Dibromo 3-Chloropropane	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
12-Dibromoethane	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
12-Dichlorobenzene	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
12-Dichloroethane	**1.2**	**0.26**	**1.8**	**1.1**	< 0.21	**0.28**
12-Dichloropropane	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
135-Trimethylbenzene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	**0.23 J**
13-Butadiene	< 0.39	< 0.49	< 0.29	< 0.42	< 0.42	< 0.25
13-Dichlorobenzene	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
14-Dichlorobenzene	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
14-Dioxane	< 0.98	< 1.2	< 0.73	< 1.1	< 1	**1.2**
2-Butanone (MEK)	**2.2 J**	**1.3 J**	**2.2 J**	**1.4 J**	**0.76 J**	**1.5 J**
2-Hexanone	< 0.98	< 1.2	< 0.73	< 1.1	< 1	**0.23 J**
2-Propanol (Isopropyl Alcohol)	**2.5 J**	**2.1 J**	**30**	**31**	**2 J**	**7.6**
3-Chloro-1-propene(Allyl Chloride)	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
4-Ethyltoluene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	**0.22 J**
4-Methyl-2-pentanone	**2.4**	< 1.2	**0.39 J**	< 1.1	**0.67 J**	**0.61 J**
Acetone	**26**	**25**	**37**	**26**	**6.9 J**	**19**
Acetonitrile	< 0.98	**5**	**0.54 J**	**0.53 J**	**0.39 J**	**1.8**
Acrolein	**2 J**	**1.4 J**	**1.4 J**	**1.1 J**	< 4.2	**1.2 J**
Acrylonitrile	< 0.98	< 1.2	< 0.73	< 1.1	< 1	**1**
alpha-Pinene	**2.9**	**2.6**	**2**	**0.51 J**	< 1	**5.1**
Benzene	**1.2**	**0.7**	**0.52**	**0.47**	**0.57**	**0.49**
Benzyl Chloride	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
Bromodichloromethane	< 0.2	< 0.24	**0.22**	< 0.21	< 0.21	< 0.13
Bromoform	< 0.98	< 1.2	**0.39 J**	< 1.1	< 1	< 0.64
Bromomethane	< 0.39	< 0.49	< 0.29	< 0.42	< 0.42	< 0.25
Carbon Disulfide	**1.1 J**	**0.85 J**	< 7.3	< 11	< 10	< 6.4
Carbon Tetrachloride	**1.1**	**1**	**0.68**	**0.55**	**0.44**	**0.75**
Chlorobenzene	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
Chloroethane	< 0.39	< 0.49	< 0.29	< 0.42	< 0.42	< 0.25
Chloroform	**2.1**	**0.22 J**	**1.3**	**0.29**	**0.23**	**0.49**
Chloromethane	**0.56**	**0.38 J V**	< 0.29	**0.58**	**0.43**	**0.54**
cis-12-Dichloroethene	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
cis-13-Dichloropropene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
Cyclohexane	< 2	< 2.4	< 1.5	< 2.1	< 2.1	**1.1 J**
Dibromochloromethane	**0.27**	< 0.24	**0.43**	< 0.21	< 0.21	< 0.13
Dichlorodifluoromethane (CFC 12)	**2.1**	**4.4**	**1.8**	**2.1**	**2**	**2.2**
Dichloromethane (Methylene Chloride)	**41**	**3.2**	**110**	**41**	**3.5**	**93 B**
d-Limonene	**27**	**2.8**	**28**	**3.6**	< 1	**7.7**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601737	P1601806	P1601806	P1601718	P1601719	P1601716
Location	Residence	Residence	Res Dup	Residence	Res Ext	Residence
Date Sampled	4/1/2016	4/4/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016
Ethanol	**150**	**17**	**360**	**190**	**8.6 J**	**240**
Ethyl Acetate	**5.7**	**3.7**	**28**	**35**	**8.7**	**16**
Ethylbenzene	**0.51 J**	**0.71 J**	**0.34 J**	**0.35 J**	**0.39 J**	**0.3 J**
Hexachlorobutadiene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
Isopropylbenzene (Cumene)	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
mp-Xylenes	**1.5**	**2.5**	**0.93**	**1 J**	**1.2**	**0.85**
Methyl Methacrylate	< 2	< 2.4	< 1.5	< 2.1	< 2.1	< 1.3
Methyl tert-Butyl Ether	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
Naphthalene	**0.4 J**	**0.51 J**	**0.99**	**0.38 J**	**0.42 J**	**1.5**
n-Butyl Acetate	**1.2**	< 1.2	**8.8**	**1.8**	**3.3**	**0.41 J**
n-Heptane	**0.73 J**	**0.49 J**	**0.6 J**	**0.39 J**	< 1	**0.32 J**
n-Hexane	**0.84 J**	**3.5**	**0.44 J**	**0.42 J**	**0.34 J**	**0.54 J**
n-Nonane	< 0.98	< 1.2	< 0.73	**0.52 J**	< 1	**0.33 J**
n-Octane	< 0.98	< 1.2	< 0.73	< 1.1	< 1	**0.26 J**
n-Propylbenzene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
o-Xylene	**0.57 J**	**0.75 J**	**0.36 J**	**0.4 J**	**0.42 J**	**0.37 J**
Propene	**3.1**	**2.5**	**31**	**17**	**1.7**	**4.9**
Styrene	**0.73 J**	**0.45 J**	**0.44 J**	< 1.1	< 1	< 0.64
Tetrachloroethene	< 0.2	< 0.24	< 0.15	**3.7**	< 0.21	**0.099 J**
Tetrahydrofuran (THF)	< 0.98	**0.68 J**	< 0.73	< 1.1	< 1	< 0.64
Toluene	**3.4**	**41**	**4.4**	**2.5**	**1.6**	**1.5**
trans-12-Dichloroethene	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
trans-13-Dichloropropene	< 0.98	< 1.2	< 0.73	< 1.1	< 1	< 0.64
Trichloroethene (TCE)	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13
Trichlorofluoromethane (CFC 11)	**1.4**	**2.4**	**0.96**	**1.1**	**1.1**	**1.1**
Vinyl Acetate	**2.4 J**	< 12	**1.7 J**	**2.7 J**	**1.9 J**	**3.1 J**
Vinyl Chloride	< 0.2	< 0.24	< 0.15	< 0.21	< 0.21	< 0.13

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601740	P1601740	P1601716	P1601804	P1601873	P1601873
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/1/2016	3/31/2016	4/4/2016	4/6/2016	4/6/2016
111-Trichloroethane (TCA)	< 0.19	<0.14	< 0.21	< 0.23	< 0.13	< 0.13
1122-Tetrachloroethane	< 0.19	<0.16	< 0.21	< 0.23	< 0.13	< 0.13
112-Trichloroethane	< 0.19	<0.15	< 0.21	< 0.23	< 0.13	< 0.13
112-Trichlorotrifluoroethane	**0.5**	**0.501**	**0.53**	**0.47**	**0.46**	**0.47**
11-Dichloroethane (11-DCA)	< 0.19	<0.15	< 0.21	< 0.23	< 0.13	< 0.13
11-Dichloroethene (11-DCE)	< 0.19	<0.18	< 0.21	< 0.23	< 0.13	< 0.13
124-Trichlorobenzene	< 0.96	<0.31	< 1.1	< 1.1	< 0.66	< 0.64
124-Trimethylbenzene	**0.45 J**	**0.453J**	**2.6**	**0.54 J**	< 0.66	**1.4**
12-Dibromo 3-Chloropropane	< 0.96	<0.19	< 1.1	< 1.1	< 0.66	< 0.64
12-Dibromoethane	< 0.19	<0.16	< 0.21	< 0.23	< 0.13	< 0.13
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.96	<0.36	< 1.1	< 1.1	< 0.66	< 0.64
12-Dichlorobenzene	< 0.19	<0.18	< 0.21	< 0.23	< 0.13	< 0.13
12-Dichloroethane	< 0.19	**0.121J**	< 0.21	**0.62**	**5.2**	**4.2**
12-Dichloropropane	< 0.19	<0.16	< 0.21	< 0.23	< 0.13	< 0.13
135-Trimethylbenzene	< 0.96	<0.31	**0.96 J**	< 1.1	< 0.66	**0.35 J**
13-Butadiene	< 0.38	<0.27	< 0.42	< 0.45	< 0.26	< 0.26
13-Dichlorobenzene	< 0.19	<0.14	< 0.21	< 0.23	< 0.13	< 0.13
14-Dichlorobenzene	**2**	**1.95**	< 0.21	< 0.23	< 0.13	**0.12 J**
14-Dioxane	< 0.96	<0.31	< 1.1	< 1.1	< 0.66	< 0.64
2-Butanone (MEK)	**2.1 J**	**2.04J**	**0.98 J**	**3.8 J**	**5.2 J**	**4.7 J**
2-Hexanone	< 0.96	<0.31	< 1.1	< 1.1	**0.56 J**	**0.36 J**
2-Propanol (Isopropyl Alcohol)	**5.6 J**	**5.56J**	**4.3 J**	**62**	**6.6**	**2.6 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.19	<0.15	< 0.21	< 0.23	< 0.13	< 0.13
4-Ethyltoluene	< 0.96	<0.31	**0.91 J**	< 1.1	< 0.66	**0.27 J**
4-Methyl-2-pentanone	< 0.96	<0.31	< 1.1	**0.58 J**	**0.38 J**	**0.45 J**
Acetone	**18**	**17.8**	**16**	**100**	**74**	**51**
Acetonitrile	**1.2**	**1.15**	< 1.1	< 1.1	**0.56 J**	**0.42 J**
Acrolein	**6.1**	**6**	**1.6 J**	**3.5 J**	**3**	**2 J**
Acrylonitrile	< 0.96	<0.33	< 1.1	< 1.1	**0.27 J**	**0.26 J**
alpha-Pinene	**0.69 J**	**0.682J**	**3.8**	**1.8**	**3.9**	**3.3**
Benzene	**0.93**	**0.914**	**0.46**	**0.92**	**0.73**	**0.71**
Benzyl Chloride	< 0.96	<0.21	< 1.1	< 1.1	< 0.66	< 0.64
Bromodichloromethane	< 0.19	<0.13	< 0.21	< 0.23	**0.16**	**0.16**
Bromoform	< 0.96	<0.29	< 1.1	< 1.1	**0.3 J**	**0.48 J**
Bromomethane	< 0.38	<0.18	< 0.42	< 0.45	< 0.26	< 0.26
Carbon Disulfide	**2.7 J**	**2.72J**	< 11	< 11	< 6.6	< 6.4
Carbon Tetrachloride	**0.53**	**0.528**	**0.49**	**0.57**	**0.44**	**0.42**
Chlorobenzene	< 0.19	<0.16	< 0.21	< 0.23	< 0.13	< 0.13
Chloroethane	< 0.38	<0.17	< 0.42	< 0.45	< 0.26	< 0.26
Chloroform	**0.18 J**	**0.2**	< 0.21	**0.35**	**0.31**	**0.22**
Chloromethane	**0.5**	**0.426**	**0.49**	**0.71**	**0.28**	**0.27**
cis-12-Dichloroethene	< 0.19	<0.18	< 0.21	< 0.23	< 0.13	< 0.13
cis-13-Dichloropropene	< 0.96	<0.27	< 1.1	< 1.1	< 0.66	< 0.64
Cyclohexane	< 1.9	<0.56	< 2.1	< 2.3	< 1.3	< 1.3
Dibromochloromethane	< 0.19	<0.16	< 0.21	**0.27**	**0.28**	**0.28**
Dichlorodifluoromethane (CFC 12)	**2.1**	**2.12**	**2.2**	**1.9**	**1.8**	**1.8**
Dichloromethane (Methylene Chloride)	**36**	**35**	**70 B**	**71**	**280 B, D**	**420 B, D**
d-Limonene	**2.2**	**2.14**	**2.3**	**10**	**13**	**29**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601740	P1601740	P1601716	P1601804	P1601873	P1601873
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/1/2016	3/31/2016	4/4/2016	4/6/2016	4/6/2016
Ethanol	**48**	**46.6**	**33**	**1100**	**2100 D**	**1500 D**
Ethyl Acetate	**14**	**13.9**	**0.74 J**	**8.8**	**17**	**14**
Ethylbenzene	**0.39 J**	**0.386J**	**0.7 J**	**0.65 J**	**1.2**	**1.5**
Hexachlorobutadiene	< 0.96	<0.27	< 1.1	< 1.1	< 0.66	< 0.64
Isopropylbenzene (Cumene)	**7.5**	**7.35**	**0.38 J**	< 1.1	< 0.66	< 0.64
mp-Xylenes	**1**	**0.996**	**3**	**2.1**	**1.8**	**3.4**
Methyl Methacrylate	< 1.9	<0.6	< 2.1	< 2.3	< 1.3	< 1.3
Methyl tert-Butyl Ether	< 0.19	<0.18	< 0.21	< 0.23	< 0.13	< 0.13
Naphthalene	**0.91 J**	**0.906J**	< 1.1	< 1.1	< 0.66	**0.61 J**
n-Butyl Acetate	**0.93 J**	**0.904J**	**3.6**	**2.6**	**2.2**	**1.9**
n-Heptane	**0.33 J**	<0.33	< 1.1	**0.55 J**	**0.61 J**	**0.5 J**
n-Hexane	**0.65 J**	**0.672J**	**0.53 J**	**0.58 J**	**0.96**	**0.83**
n-Nonane	< 0.96	<0.29	**12**	**0.42 J**	**0.22 J**	**0.26 J**
n-Octane	< 0.96	<0.35	**0.51 J**	< 1.1	**0.29 J**	**0.27 J**
n-Propylbenzene	< 0.96	<0.31	**0.8 J**	< 1.1	< 0.66	< 0.64
o-Xylene	**0.43 J**	**0.422J**	**1.7**	**0.72 J**	**0.65 J**	**1.3**
Propene	**2.7**	**3.02**	**3.6**	**29**	**6.5**	**2.7**
Styrene	< 0.96	<0.29	< 1.1	< 1.1	< 0.66	**0.95**
Tetrachloroethene	< 0.19	<0.14	< 0.21	**1.3**	**1.5**	< 0.13
Tetrahydrofuran (THF)	< 0.96	<0.38	< 1.1	< 1.1	**0.28 J**	**0.27 J**
Toluene	**4.6**	**4.6**	**0.84 J**	**4.5**	**6.3**	**7.3**
trans-12-Dichloroethene	< 0.19	<0.17	< 0.21	< 0.23	< 0.13	< 0.13
trans-13-Dichloropropene	< 0.96	<0.31	< 1.1	< 1.1	< 0.66	< 0.64
Trichloroethene (TCE)	< 0.19	<0.17	< 0.21	**0.24**	< 0.13	< 0.13
Trichlorofluoromethane (CFC 11)	**1.1**	**1.13**	**1.2**	**0.98**	**0.98**	**0.96**
Vinyl Acetate	**5 J**	**5.06J**	< 11	**8.7 J**	**3.7 J**	**2.2 J**
Vinyl Chloride	< 0.19	<0.18	< 0.21	< 0.23	< 0.13	< 0.13

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601664	P1601718	P1601874	P1601738	P1601738	P1601875
Location	Residence	Residence	Residence	Residence	Res Dup	Res Ext
Date Sampled	3/29/2016	3/31/2016	4/7/2016	4/1/2016	4/1/2016	4/7/2016
111-Trichloroethane (TCA)	< 0.22	**0.62**	< 0.2	**0.13 J**	**0.13 J**	< 0.13
1122-Tetrachloroethane	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
112-Trichloroethane	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
112-Trichlorotrifluoroethane	**0.5**	**0.5**	**0.54**	**0.53**	**0.51**	**0.48**
11-Dichloroethane (11-DCA)	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
11-Dichloroethene (11-DCE)	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
124-Trichlorobenzene	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
124-Trimethylbenzene	< 1.1	**0.23 J**	**0.81 J**	**1.3**	**1.2**	**0.22 J**
12-Dibromo 3-Chloropropane	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
12-Dibromoethane	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
12-Dichlorobenzene	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
12-Dichloroethane	< 0.22	**9.9**	**0.13 J**	**0.28**	**0.27**	< 0.13
12-Dichloropropane	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
135-Trimethylbenzene	< 1.1	< 0.66	< 0.99	**0.33 J**	**0.33 J**	< 0.65
13-Butadiene	< 0.44	< 0.26	< 0.4	< 0.31	< 0.35	< 0.26
13-Dichlorobenzene	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
14-Dichlorobenzene	**1.2**	< 0.13	< 0.2	**0.49**	**0.49**	< 0.13
14-Dioxane	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
2-Butanone (MEK)	< 11	**1.8 J**	**5.4 J**	**3 J**	**1.9 J**	**1.4 J**
2-Hexanone	< 1.1	< 0.66	**0.33 J**	< 0.78	< 0.89	< 0.65
2-Propanol (Isopropyl Alcohol)	< 11	**11**	**4.2 J**	**9.4**	**11**	**1.1 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
4-Ethyltoluene	< 1.1	< 0.66	< 0.99	**0.41 J**	**0.39 J**	< 0.65
4-Methyl-2-pentanone	< 1.1	**0.51 J**	**1.5**	**0.54 J**	**0.5 J**	< 0.65
Acetone	**23**	**24**	**37**	**45**	**42**	**16**
Acetonitrile	< 1.1	**0.68**	< 0.99	< 0.78	< 0.89	**0.28 J**
Acrolein	< 4.4	**1.7 J**	**2.5 J**	**2.2 J**	**1.8 J**	**0.37 J**
Acrylonitrile	< 1.1	**0.35 J**	< 0.99	< 0.78	< 0.89	< 0.65
alpha-Pinene	**1.9**	**2.3**	**3.6**	**1.4**	**1.4**	**0.3 J**
Benzene	**0.55**	**0.65**	**0.95**	**4**	**2.1**	**0.66**
Benzyl Chloride	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
Bromodichloromethane	< 0.22	**0.14**	< 0.2	< 0.16	< 0.18	< 0.13
Bromoform	< 1.1	**0.39 J**	< 0.99	< 0.78	< 0.89	< 0.65
Bromomethane	< 0.44	< 0.26	< 0.4	< 0.31	< 0.35	< 0.26
Carbon Disulfide	< 11	**0.2 J**	**0.46 J**	**1.6 J**	**0.43 J**	< 6.5
Carbon Tetrachloride	**0.54**	**0.49**	**0.54**	**0.58**	**0.57**	**0.39**
Chlorobenzene	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
Chloroethane	< 0.44	< 0.26	< 0.4	< 0.31	< 0.35	< 0.26
Chloroform	**0.62**	**0.3**	**0.28**	**0.78**	**0.76**	**0.36**
Chloromethane	**0.55**	**0.64**	**0.52**	**0.6**	**0.59**	**0.53**
cis-12-Dichloroethene	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
cis-13-Dichloropropene	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
Cyclohexane	< 2.2	< 1.3	< 2	**0.67 J**	**0.68 J**	< 1.3
Dibromochloromethane	< 0.22	**0.41**	< 0.2	< 0.16	< 0.18	< 0.13
Dichlorodifluoromethane (CFC 12)	**2.1**	**2.2**	**2**	**2.2**	**2.2**	**2**
Dichloromethane (Methylene Chloride)	**53**	**130**	**68**	**33**	**39**	**0.72**
d-Limonene	**37**	**19**	**14**	**1.4**	**1.3**	< 0.65

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601664	P1601718	P1601874	P1601738	P1601738	P1601875
Location	Residence	Residence	Residence	Residence	Res Dup	Res Ext
Date Sampled	3/29/2016	3/31/2016	4/7/2016	4/1/2016	4/1/2016	4/7/2016
Ethanol	**380**	**350**	**62**	**94**	**89**	**15**
Ethyl Acetate	< 2.2	**10**	**9.8**	**2.3**	**7.2**	< 1.3
Ethylbenzene	< 1.1	**0.48 J**	**0.9 J**	**1.5**	**1.3**	**0.27 J**
Hexachlorobutadiene	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
Isopropylbenzene (Cumene)	< 1.1	< 0.66	< 0.99	**370 D**	< 0.89	< 0.65
mp-Xylenes	**1.7**	**1.2**	**2.8**	**5**	**4.8**	**0.74**
Methyl Methacrylate	< 2.2	**1.5**	**1.2 J**	< 1.6	< 1.8	< 1.3
Methyl tert-Butyl Ether	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
Naphthalene	< 1.1	**0.38 J**	**0.75 J**	< 0.78	< 0.89	< 0.65
n-Butyl Acetate	**1.1**	**0.74**	**0.7 J**	**1.1**	**1**	**0.42 J**
n-Heptane	**6.2**	**0.59 J**	**1.7**	**1.5**	**1.5**	**0.31 J**
n-Hexane	< 1.1	**0.46 J**	**0.88 J B**	**1.7**	**1.8**	**0.54 J**
n-Nonane	**2.7**	**1**	**0.37 J**	**0.44 J**	**0.39 J**	< 0.65
n-Octane	**6.1**	**1.5**	< 0.99	**0.6 J**	**0.56 J**	< 0.65
n-Propylbenzene	< 1.1	< 0.66	< 0.99	**0.48 J**	< 0.89	< 0.65
o-Xylene	< 1.1	**0.4 J**	**0.86 J**	**1.8**	**1.6**	**0.3 J**
Propene	**2.6**	**6.4**	**2.9**	**7.8**	**7.5**	**1.3**
Styrene	< 1.1	**0.83**	**0.61 J**	< 0.78	< 0.89	< 0.65
Tetrachloroethene	< 0.22	**0.43**	< 0.2	< 0.16	< 0.18	**0.13 J**
Tetrahydrofuran (THF)	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
Toluene	< 1.1	**1.5**	**9.2**	**9.1**	**9.3**	**1.7**
trans-12-Dichloroethene	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13
trans-13-Dichloropropene	< 1.1	< 0.66	< 0.99	< 0.78	< 0.89	< 0.65
Trichloroethene (TCE)	< 0.22	< 0.13	< 0.2	**0.59**	**0.58**	< 0.13
Trichlorofluoromethane (CFC 11)	**1.1**	**1.1**	**1.1**	**1.2**	**1.1**	**1**
Vinyl Acetate	< 11	**2.8 J**	**2.9 J**	**2.3 J**	**2.1 J**	< 6.5
Vinyl Chloride	< 0.22	< 0.13	< 0.2	< 0.16	< 0.18	< 0.13

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601874	P1601831	P1601873	P1601875	P1601664	P1601664
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/7/2016	4/5/2016	4/6/2016	4/7/2016	3/29/2016	3/29/2016
111-Trichloroethane (TCA)	< 0.15	< 0.23	< 0.22	< 0.21	**0.34**	**0.324**
1122-Tetrachloroethane	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.17
112-Trichloroethane	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.17
112-Trichlorotrifluoroethane	**0.35**	**0.51**	**0.48**	**0.46**	**0.52**	**0.535**
11-Dichloroethane (11-DCA)	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.16
11-Dichloroethene (11-DCE)	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.19
124-Trichlorobenzene	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.33
124-Trimethylbenzene	**0.35 J**	**4.9**	**0.65 J**	< 1	< 1	<0.31
12-Dibromo 3-Chloropropane	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.21
12-Dibromoethane	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.18
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.4
12-Dichlorobenzene	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.19
12-Dichloroethane	**0.59**	**0.58**	**0.34**	**0.72**	< 0.21	<0.13
12-Dichloropropane	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.17
135-Trimethylbenzene	< 0.74	**1.6**	< 1.1	< 1	< 1	<0.33
13-Butadiene	< 0.29	< 0.46	< 0.43	< 0.41	< 0.42	<0.29
13-Dichlorobenzene	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.15
14-Dichlorobenzene	**0.12 J**	< 0.23	**0.2 J**	< 0.21	< 0.21	<0.16
14-Dioxane	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.33
2-Butanone (MEK)	**2 J**	**2.1 J**	**2.2 J**	**4.5 J**	< 10	<0.44
2-Hexanone	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.33
2-Propanol (Isopropyl Alcohol)	**7.5**	**6.7 J**	**4.3 J**	**4.4 J**	< 10	<0.87
3-Chloro-1-propene(Allyl Chloride)	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.16
4-Ethyltoluene	< 0.74	**1.8**	< 1.1	< 1	< 1	<0.33
4-Methyl-2-pentanone	**0.32 J**	< 1.2	**0.9 J**	< 1	< 1	<0.33
Acetone	**14**	**39**	**42**	**23**	< 10	<1.6
Acetonitrile	< 0.74	< 1.2	**0.4 J**	< 1	< 1	<0.37
Acrolein	**1.1 J**	**1.9 J**	**2.1 J**	**1.8 J**	< 4.2	<0.35
Acrylonitrile	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.35
alpha-Pinene	**1.3**	**4.8**	**6.8**	**3.3**	< 1	<0.29
Benzene	**0.65**	**0.41**	**0.79**	**0.59**	**0.39**	**0.387**
Benzyl Chloride	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.23
Bromodichloromethane	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.14
Bromoform	< 0.74	< 1.2	**0.35 J**	< 1	< 1	<0.31
Bromomethane	< 0.29	< 0.46	< 0.43	< 0.41	< 0.42	<0.19
Carbon Disulfide	< 7.4	< 12	**0.42 J**	**0.92 J**	< 10	<0.31
Carbon Tetrachloride	**0.35**	**0.52**	**0.41**	**0.39**	**0.5**	**0.466**
Chlorobenzene	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.17
Chloroethane	< 0.29	< 0.46	< 0.43	< 0.41	< 0.42	<0.18
Chloroform	**0.61**	**0.26**	**0.6**	**0.19 J**	**0.25**	**0.233**
Chloromethane	**0.49**	**0.71**	< 0.43	**0.62**	**0.45**	<0.29
cis-12-Dichloroethene	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.19
cis-13-Dichloropropene	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.29
Cyclohexane	**0.48 J**	< 2.3	< 2.2	< 2.1	< 2.1	<0.6
Dibromochloromethane	< 0.15	**0.28**	**0.3**	< 0.21	< 0.21	<0.18
Dichlorodifluoromethane (CFC 12)	**2.1**	**2.1**	**1.9**	**1.9**	**2.2**	**2.16**
Dichloromethane (Methylene Chloride)	**51**	**47**	**42 B**	**16**	**61**	**60.7**
d-Limonene	**2.8**	**22**	**26**	**2.4**	**5**	**4.88**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601874	P1601831	P1601873	P1601875	P1601664	P1601664
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/7/2016	4/5/2016	4/6/2016	4/7/2016	3/29/2016	3/29/2016
Ethanol	**81**	**1300 D**	**310**	**18**	< 10	<1.7
Ethyl Acetate	**2.4**	**18**	**15**	**2 J**	< 2.1	<0.73
Ethylbenzene	**0.36 J**	**0.4 J**	**0.55 J**	< 1	< 1	<0.33
Hexachlorobutadiene	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.29
Isopropylbenzene (Cumene)	**1.3**	< 1.2	< 1.1	**31**	< 1	<0.31
mp-Xylenes	**1**	**1 J**	**1.2**	**0.76 J**	< 1	<0.6
Methyl Methacrylate	< 1.5	< 2.3	< 2.2	< 2.1	< 2.1	<0.64
Methyl tert-Butyl Ether	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.19
Naphthalene	< 0.74	< 1.2	**0.52 J**	**0.68 J**	< 1	<0.37
n-Butyl Acetate	**0.58 J**	**1.6**	**2.3**	**1.7**	< 1	<0.33
n-Heptane	**0.42 J**	**0.76 J**	< 1.1	< 1	< 1	<0.35
n-Hexane	**0.87 B**	**0.44 J**	**0.41 J**	**0.4 J**	< 1	<0.31
n-Nonane	< 0.74	**0.53 J**	**0.32 J**	< 1	< 1	<0.31
n-Octane	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.37
n-Propylbenzene	< 0.74	**1.3**	< 1.1	< 1	< 1	<0.33
o-Xylene	**0.39 J**	**0.73 J**	**0.45 J**	< 1	< 1	<0.31
Propene	**2.7**	**2.5**	**4.6**	**3.1**	**3.2**	**3.15**
Styrene	**0.48 J**	**0.81 J**	**1 J**	**0.75 J**	< 1	<0.31
Tetrachloroethene	**0.23**	< 0.23	< 0.22	**0.81**	**0.97**	**0.948**
Tetrahydrofuran (THF)	**1.2**	< 1.2	< 1.1	< 1	< 1	<0.42
Toluene	**2.2**	**2**	**3**	**2**	< 1	<0.35
trans-12-Dichloroethene	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.19
trans-13-Dichloropropene	< 0.74	< 1.2	< 1.1	< 1	< 1	<0.33
Trichloroethene (TCE)	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.19
Trichlorofluoromethane (CFC 11)	**1.6**	**1.1**	**0.99**	**0.98**	**1.2**	**1.14**
Vinyl Acetate	< 7.4	**2.3 J**	**2.2 J**	**1.9 J**	< 10	<1.4
Vinyl Chloride	< 0.15	< 0.23	< 0.22	< 0.21	< 0.21	<0.2

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601665	P1601665	P1601689	P1601718	P1601688	P1601688
Location	Res Dup	Res Dup	Residence	Residence	Residence	Res Dup
Date Sampled	3/29/2016	3/29/2016	3/30/2016	3/31/2016	3/30/2016	3/30/2016
111-Trichloroethane (TCA)	**0.39**	**0.333**	< 0.13	< 0.21	< 0.16	< 0.19
1122-Tetrachloroethane	< 0.21	<0.17	< 0.13	< 0.21	< 0.16	< 0.19
112-Trichloroethane	< 0.21	<0.17	< 0.13	< 0.21	< 0.16	< 0.19
112-Trichlorotrifluoroethane	**0.45**	**0.468**	**0.51**	**0.48**	**0.48**	**0.48**
11-Dichloroethane (11-DCA)	< 0.21	<0.16	< 0.13	< 0.21	< 0.16	< 0.19
11-Dichloroethene (11-DCE)	< 0.21	<0.19	< 0.13	< 0.21	< 0.16	< 0.19
124-Trichlorobenzene	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
124-Trimethylbenzene	< 1	<0.31	< 0.66	< 1	< 0.81	< 0.97
12-Dibromo 3-Chloropropane	< 1	<0.21	< 0.66	< 1	< 0.81	< 0.97
12-Dibromoethane	< 0.21	<0.18	< 0.13	< 0.21	< 0.16	< 0.19
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1	<0.4	< 0.66	< 1	< 0.81	< 0.97
12-Dichlorobenzene	< 0.21	<0.19	< 0.13	< 0.21	< 0.16	< 0.19
12-Dichloroethane	< 0.21	<0.13	**0.21**	**2.5**	**0.6**	**0.61**
12-Dichloropropane	< 0.21	<0.17	< 0.13	< 0.21	< 0.16	< 0.19
135-Trimethylbenzene	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
13-Butadiene	< 0.42	<0.29	< 0.26	< 0.41	< 0.32	< 0.39
13-Dichlorobenzene	< 0.21	<0.15	< 0.13	< 0.21	< 0.16	< 0.19
14-Dichlorobenzene	< 0.21	<0.16	**0.11 J**	< 0.21	< 0.16	< 0.19
14-Dioxane	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
2-Butanone (MEK)	< 10	<0.44	**2.5 J**	**1.7 J**	**1 J**	**0.7 J**
2-Hexanone	< 1	<0.33	**0.39 J**	**0.34 J**	< 0.81	< 0.97
2-Propanol (Isopropyl Alcohol)	< 10	<0.87	**11**	**6.7 J**	**7.8 J**	**7.9 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.21	<0.16	< 0.13	< 0.21	< 0.16	< 0.19
4-Ethyltoluene	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
4-Methyl-2-pentanone	< 1	<0.33	**0.7**	**0.37 J**	< 0.81	< 0.97
Acetone	< 10	<1.6	**35**	**42**	**12**	**11**
Acetonitrile	< 1	<0.37	< 0.66	**7**	< 0.81	< 0.97
Acrolein	< 4.2	<0.35	**1.7 J**	**3.3 J**	**0.62 J**	**0.67 J**
Acrylonitrile	< 1	<0.35	< 0.66	< 1	< 0.81	< 0.97
alpha-Pinene	< 1	<0.29	**0.31 J**	**0.55 J**	**0.47 J**	**0.46 J**
Benzene	**0.37**	**0.364**	**0.4**	**0.7**	**0.35**	**0.36**
Benzyl Chloride	< 1	<0.23	< 0.66	< 1	< 0.81	< 0.97
Bromodichloromethane	< 0.21	<0.14	< 0.13	< 0.21	< 0.16	< 0.19
Bromoform	< 1	<0.31	< 0.66	**0.34 J**	< 0.81	< 0.97
Bromomethane	< 0.42	<0.19	< 0.26	< 0.41	< 0.32	< 0.39
Carbon Disulfide	< 10	<0.31	< 6.6	< 10	< 8.1	< 9.7
Carbon Tetrachloride	**0.38**	**0.387**	**0.4**	**0.55**	**0.4**	**0.42**
Chlorobenzene	< 0.21	<0.17	< 0.13	< 0.21	< 0.16	< 0.19
Chloroethane	< 0.42	<0.18	< 0.26	< 0.41	< 0.32	< 0.39
Chloroform	**0.22**	**0.223**	**0.23**	**0.55**	< 0.16	< 0.19
Chloromethane	**0.62**	**0.539**	**0.52**	**0.6**	**0.45**	**0.41**
cis-12-Dichloroethene	< 0.21	<0.19	< 0.13	< 0.21	< 0.16	< 0.19
cis-13-Dichloropropene	< 1	<0.29	< 0.66	< 1	< 0.81	< 0.97
Cyclohexane	< 2.1	<0.6	< 1.3	< 2.1	< 1.6	< 1.9
Dibromochloromethane	< 0.21	<0.18	< 0.13	**0.35**	< 0.16	< 0.19
Dichlorodifluoromethane (CFC 12)	**1.9**	**2.02**	**2**	**2.1**	**2.2**	**2.2**
Dichloromethane (Methylene Chloride)	**63**	**63.7**	**47**	**82**	**17**	**17**
d-Limonene	**4.3**	**4.42**	**2.2**	**5.1**	**1.5**	**1.5**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601665	P1601665	P1601689	P1601718	P1601688	P1601688
Location	Res Dup	Res Dup	Residence	Residence	Residence	Res Dup
Date Sampled	3/29/2016	3/29/2016	3/30/2016	3/31/2016	3/30/2016	3/30/2016
Ethanol	< 10	<1.7	**170**	**130**	**530**	**620**
Ethyl Acetate	< 2.1	<0.73	**5**	**22**	**16**	**23**
Ethylbenzene	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
Hexachlorobutadiene	< 1	<0.29	< 0.66	< 1	< 0.81	< 0.97
Isopropylbenzene (Cumene)	< 1	<0.31	< 0.66	< 1	< 0.81	< 0.97
mp-Xylenes	< 1	<0.6	**0.6 J**	**0.67 J**	< 0.81	< 0.97
Methyl Methacrylate	< 2.1	<0.64	**1.1 J**	< 2.1	< 1.6	< 1.9
Methyl tert-Butyl Ether	< 0.21	<0.19	< 0.13	< 0.21	< 0.16	< 0.19
Naphthalene	< 1	<0.37	< 0.66	< 1	< 0.81	< 0.97
n-Butyl Acetate	< 1	<0.33	**0.57 J**	**7.3**	**0.98**	**0.74 J**
n-Heptane	< 1	<0.35	< 0.66	**1.2**	< 0.81	< 0.97
n-Hexane	< 1	<0.31	< 0.66	**0.78 J**	< 0.81	< 0.97
n-Nonane	< 1	<0.31	< 0.66	**0.93 J**	< 0.81	< 0.97
n-Octane	< 1	<0.37	< 0.66	**2.7**	< 0.81	< 0.97
n-Propylbenzene	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
o-Xylene	< 1	<0.31	**0.2 J**	< 1	< 0.81	< 0.97
Propene	**2.3**	**1.86**	**5.4**	**4.2**	**4.7**	**4.6**
Styrene	< 1	<0.31	< 0.66	< 1	< 0.81	< 0.97
Tetrachloroethene	**0.93**	**0.913**	< 0.13	< 0.21	< 0.16	< 0.19
Tetrahydrofuran (THF)	< 1	<0.42	< 0.66	< 1	< 0.81	< 0.97
Toluene	< 1	<0.35	**1.2**	**1.6**	**0.92**	**0.91 J**
trans-12-Dichloroethene	< 0.21	<0.19	< 0.13	< 0.21	< 0.16	< 0.19
trans-13-Dichloropropene	< 1	<0.33	< 0.66	< 1	< 0.81	< 0.97
Trichloroethene (TCE)	< 0.21	<0.19	< 0.13	< 0.21	**0.23**	**0.24**
Trichlorofluoromethane (CFC 11)	**1**	**1.05**	**1.1**	**1.1**	**1.1**	**1.1**
Vinyl Acetate	< 10	<1.4	**3.5 J**	**12**	**1.4 J**	**2.3 J**
Vinyl Chloride	< 0.21	<0.2	< 0.13	< 0.21	< 0.16	< 0.19

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601689	P1601691	P1601668	P1601689	P1601688	P1601690
Location	Residence	Res Dup	Residence	Residence	Residence	Res Ext
Date Sampled	3/30/2016	3/30/2016	3/29/2016	3/30/2016	3/30/2016	3/30/2016
111-Trichloroethane (TCA)	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
1122-Tetrachloroethane	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
112-Trichloroethane	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
112-Trichlorotrifluoroethane	**0.46**	**0.48**	**0.46**	**0.5**	**0.49**	**0.48**
11-Dichloroethane (11-DCA)	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
11-Dichloroethene (11-DCE)	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
124-Trichlorobenzene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
124-Trimethylbenzene	< 1.1	< 1.1	< 0.61	**0.73**	< 0.84	< 0.85
12-Dibromo 3-Chloropropane	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
12-Dibromoethane	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
12-Dichlorobenzene	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
12-Dichloroethane	< 0.23	< 0.21	**0.25**	**0.26**	< 0.17	< 0.17
12-Dichloropropane	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
135-Trimethylbenzene	< 1.1	< 1.1	< 0.61	**0.21 J**	< 0.84	< 0.85
13-Butadiene	< 0.46	< 0.42	< 0.24	< 0.25	< 0.33	< 0.34
13-Dichlorobenzene	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
14-Dichlorobenzene	< 0.23	< 0.21	< 0.12	**1.5**	< 0.17	< 0.17
14-Dioxane	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
2-Butanone (MEK)	**0.68 J**	< 11	< 6.1	**1.4 J**	**2.2 J**	**0.41 J**
2-Hexanone	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
2-Propanol (Isopropyl Alcohol)	**2 J**	< 11	< 6.1	**6.1 J**	**4.8 J**	< 8.5
3-Chloro-1-propene(Allyl Chloride)	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
4-Ethyltoluene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
4-Methyl-2-pentanone	< 1.1	< 1.1	< 0.61	**1**	< 0.84	< 0.85
Acetone	**10 J**	< 11	**20**	**24**	**15**	**3.7 J**
Acetonitrile	< 1.1	< 1.1	< 0.61	**0.34 J**	< 0.84	< 0.85
Acrolein	**0.65 J**	< 4.2	< 2.4	**1.1 J**	**0.46 J**	< 3.4
Acrylonitrile	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
alpha-Pinene	**0.48 J**	< 1.1	**1.2**	**0.82**	**1.8**	< 0.85
Benzene	**1.1**	**1**	**0.32**	**0.74**	**0.37**	**0.28**
Benzyl Chloride	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
Bromodichloromethane	< 0.23	< 0.21	**0.15**	< 0.13	< 0.17	< 0.17
Bromoform	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
Bromomethane	< 0.46	< 0.42	< 0.24	< 0.25	< 0.33	< 0.34
Carbon Disulfide	< 11	< 11	< 6.1	< 6.4	< 8.4	< 8.5
Carbon Tetrachloride	**0.38**	**0.44**	**0.43**	**0.41**	**0.44**	**0.43**
Chlorobenzene	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
Chloroethane	< 0.46	< 0.42	< 0.24	< 0.25	< 0.33	< 0.34
Chloroform	< 0.23	< 0.21	**0.22**	**0.12 J**	< 0.17	< 0.17
Chloromethane	**0.53**	**0.46**	**0.54**	**0.61**	**0.6**	**0.5**
cis-12-Dichloroethene	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
cis-13-Dichloropropene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
Cyclohexane	< 2.3	< 2.1	< 1.2	< 1.3	< 1.7	< 1.7
Dibromochloromethane	< 0.23	< 0.21	**0.48**	< 0.13	< 0.17	< 0.17
Dichlorodifluoromethane (CFC 12)	**2**	**2**	**2**	**2**	**2**	**2.1**
Dichloromethane (Methylene Chloride)	**110**	**85**	**71**	**76**	**280 ,D**	**9.5**
d-Limonene	**0.93 J**	**1.1**	**7.5**	**2.9**	**0.62 J**	**0.26 J**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601689	P1601691	P1601668	P1601689	P1601688	P1601690
Location	Residence	Res Dup	Residence	Residence	Residence	Res Ext
Date Sampled	3/30/2016	3/30/2016	3/29/2016	3/30/2016	3/30/2016	3/30/2016
Ethanol	**17**	**15**	**170**	**620**	**10**	**4.7 J**
Ethyl Acetate	**4.5**	**6.4**	**1.4**	**8.8**	< 1.7	**1.4 J**
Ethylbenzene	< 1.1	< 1.1	< 0.61	**0.37 J**	< 0.84	< 0.85
Hexachlorobutadiene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	**0.39 J**
Isopropylbenzene (Cumene)	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
mp-Xylenes	**0.98 J**	< 1.1	< 0.61	**1.2**	< 0.84	< 0.85
Methyl Methacrylate	< 2.3	< 2.1	< 1.2	< 1.3	< 1.7	< 1.7
Methyl tert-Butyl Ether	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
Naphthalene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
n-Butyl Acetate	**2.2**	**2**	< 0.61	**2.5**	< 0.84	< 0.85
n-Heptane	**0.41 J**	< 1.1	< 0.61	**0.49 J**	< 0.84	< 0.85
n-Hexane	**0.55 J**	< 1.1	< 0.61	**0.88**	< 0.84	< 0.85
n-Nonane	< 1.1	< 1.1	< 0.61	**0.29 J**	**0.51 J**	< 0.85
n-Octane	< 1.1	< 1.1	< 0.61	**0.32 J**	< 0.84	< 0.85
n-Propylbenzene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
o-Xylene	**0.35 J**	< 1.1	< 0.61	**0.43 J**	< 0.84	< 0.85
Propene	**1.6**	**2.4**	**2.5**	**2.5**	**3.6**	**0.45 J**
Styrene	< 1.1	< 1.1	< 0.61	**0.22 J**	< 0.84	< 0.85
Tetrachloroethene	< 0.23	< 0.21	< 0.12	**1.2**	< 0.17	< 0.17
Tetrahydrofuran (THF)	< 1.1	< 1.1	< 0.61	**1.4**	< 0.84	< 0.85
Toluene	**2**	**1.7**	**0.61**	**3**	**0.67 J**	**0.3 J**
trans-12-Dichloroethene	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
trans-13-Dichloropropene	< 1.1	< 1.1	< 0.61	< 0.64	< 0.84	< 0.85
Trichloroethene (TCE)	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17
Trichlorofluoromethane (CFC 11)	**1**	**1**	**1.1**	**1.1**	**1**	**1.1**
Vinyl Acetate	< 11	< 11	< 6.1	< 6.4	< 8.4	< 8.5
Vinyl Chloride	< 0.23	< 0.21	< 0.12	< 0.13	< 0.17	< 0.17

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601875	P1601668	P1601668	P1601690	P1601873	P1601803
Location	Residence	Res Dup	Residence	Residence	Residence	Residence
Date Sampled	4/7/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016	4/4/2016
111-Trichloroethane (TCA)	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
1122-Tetrachloroethane	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
112-Trichloroethane	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
112-Trichlorotrifluoroethane	< 0.13	**0.51**	**0.52**	**0.37**	**0.24**	**0.49**
11-Dichloroethane (11-DCA)	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
11-Dichloroethene (11-DCE)	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
124-Trichlorobenzene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
124-Trimethylbenzene	< 0.65	< 1	**0.99**	**0.23 J**	**0.68 J**	**0.69 J**
12-Dibromo 3-Chloropropane	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
12-Dibromoethane	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
12-Dichlorobenzene	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
12-Dichloroethane	< 0.13	**1.6**	**1.6**	**3.9**	< 0.17	**0.35**
12-Dichloropropane	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
135-Trimethylbenzene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
13-Butadiene	< 0.26	< 0.4	< 0.27	< 0.27	< 0.35	< 0.52
13-Dichlorobenzene	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
14-Dichlorobenzene	< 0.13	**2.8**	**2.7**	< 0.14	< 0.17	**0.24 J**
14-Dioxane	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
2-Butanone (MEK)	< 6.5	< 10	< 6.8	**1.3 J**	**1.4 J**	**2.4 J**
2-Hexanone	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
2-Propanol (Isopropyl Alcohol)	< 6.5	**35**	**34**	**6.2 J**	**8.8**	**59**
3-Chloro-1-propene(Allyl Chloride)	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
4-Ethyltoluene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
4-Methyl-2-pentanone	< 0.65	< 1	< 0.68	**0.31 J**	**0.48 J**	**1.6**
Acetone	**2.8 J**	**28**	**23**	**38**	**23**	**46**
Acetonitrile	**0.28 J**	< 1	< 0.68	**0.46 J**	**0.49 J**	< 1.3
Acrolein	< 2.6	< 4	< 2.7	**1.4 J**	**1 J**	**2.1 J**
Acrylonitrile	< 0.65	< 1	< 0.68	**0.35 J**	< 0.87	< 1.3
alpha-Pinene	< 0.65	**3**	**3.1**	**1.8**	**5.6**	**17**
Benzene	< 0.13	**0.82**	**0.74**	**0.51**	**0.5**	**1.5**
Benzyl Chloride	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
Bromodichloromethane	< 0.13	< 0.2	< 0.14	**0.12 J**	< 0.17	< 0.26
Bromoform	< 0.65	< 1	< 0.68	**0.27 J**	< 0.87	< 1.3
Bromomethane	< 0.26	< 0.4	< 0.27	< 0.27	< 0.35	< 0.52
Carbon Disulfide	< 6.5	< 10	< 6.8	< 6.8	< 8.7	< 13
Carbon Tetrachloride	< 0.13	**0.26**	**0.55**	**0.34**	**0.2**	**0.46**
Chlorobenzene	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
Chloroethane	< 0.26	< 0.4	< 0.27	< 0.27	< 0.35	< 0.52
Chloroform	< 0.13	**0.3**	**0.3**	**0.21**	**0.25**	**0.24 J**
Chloromethane	**0.53**	**0.63**	**0.56**	**0.58**	< 0.35	**0.51 J**
cis-12-Dichloroethene	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
cis-13-Dichloropropene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
Cyclohexane	< 1.3	< 2	< 1.4	< 1.4	< 1.7	< 2.6
Dibromochloromethane	< 0.13	< 0.2	**0.16**	**0.29**	< 0.17	< 0.26
Dichlorodifluoromethane (CFC 12)	**1.9**	**2.2**	**2.2**	**2.1**	**1.8**	**2.1**
Dichloromethane (Methylene Chloride)	**0.79**	**73**	**63**	**480 B, D**	**34 B**	**67 B**
d-Limonene	< 0.65	**7.5**	**8.2**	**2.8**	**5**	**14**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601875	P1601668	P1601668	P1601690	P1601873	P1601803
Location	Residence	Res Dup	Residence	Residence	Residence	Residence
Date Sampled	4/7/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016	4/4/2016
Ethanol	**14**	**390**	**350**	**440**	**430**	**500**
Ethyl Acetate	< 1.3	**7**	**6.9**	**5.1**	**21**	**17**
Ethylbenzene	< 0.65	< 1	**0.72**	**0.28 J**	**0.35 J**	**0.68 J**
Hexachlorobutadiene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
Isopropylbenzene (Cumene)	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
mp-Xylenes	< 0.65	**2.5**	**2.4**	**0.65 J**	**1.1**	**2.1**
Methyl Methacrylate	< 1.3	< 2	< 1.4	< 1.4	< 1.7	< 2.6
Methyl tert-Butyl Ether	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
Naphthalene	< 0.65	< 1	< 0.68	**0.25 J**	< 0.87	< 1.3
n-Butyl Acetate	< 0.65	**1**	**1.4**	**0.82**	**0.38 J**	**1.4**
n-Heptane	< 0.65	**1.2**	**1.2**	**0.27 J**	**0.37 J**	**0.6 J**
n-Hexane	< 0.65	< 1	< 0.68	**0.3 J**	**0.51 J**	**0.85 J**
n-Nonane	< 0.65	< 1	< 0.68	< 0.68	**0.29 J**	**0.49 J**
n-Octane	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
n-Propylbenzene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
o-Xylene	< 0.65	< 1	**0.78**	**0.26 J**	**0.41 J**	**0.74 J**
Propene	**0.83**	**21**	**22**	**4.6**	**9.5**	**28**
Styrene	< 0.65	< 1	< 0.68	**0.28 J**	**0.51 J**	**0.8 J**
Tetrachloroethene	< 0.13	< 0.2	< 0.14	**0.099 J**	**0.62**	**0.2 J**
Tetrahydrofuran (THF)	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
Toluene	< 0.65	**4.3**	**4.2**	**1.5**	**2.6**	**4.3**
trans-12-Dichloroethene	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
trans-13-Dichloropropene	< 0.65	< 1	< 0.68	< 0.68	< 0.87	< 1.3
Trichloroethene (TCE)	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26
Trichlorofluoromethane (CFC 11)	**0.34**	**1.2**	**1.2**	**1**	**1.2**	**1.1**
Vinyl Acetate	< 6.5	< 10	< 6.8	**2.9 J**	**3.3 J**	**2.5 J**
Vinyl Chloride	< 0.13	< 0.2	< 0.14	< 0.14	< 0.17	< 0.26

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601872	P1601717	P1601717	P1601691	P1601737	P1601691
Location	Residence	Residence	Res Dup	Residence	Residence	Residence
Date Sampled	4/8/2016	3/31/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016
111-Trichloroethane (TCA)	**0.18**	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
1122-Tetrachloroethane	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
112-Trichloroethane	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
112-Trichlorotrifluoroethane	**0.34**	**0.49**	**0.48**	**0.3**	**0.62**	**0.43**
11-Dichloroethane (11-DCA)	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
11-Dichloroethene (11-DCE)	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
124-Trichlorobenzene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
124-Trimethylbenzene	**0.57 J**	**0.29 J**	**0.29 J**	< 0.59	**0.53 J**	< 0.64
12-Dibromo 3-Chloropropane	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
12-Dibromoethane	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
12-Dichlorobenzene	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
12-Dichloroethane	**0.8**	< 0.17	< 0.15	< 0.12	**0.15 J**	**0.37**
12-Dichloropropane	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
135-Trimethylbenzene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
13-Butadiene	< 0.34	< 0.34	< 0.3	< 0.24	< 0.43	< 0.26
13-Dichlorobenzene	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
14-Dichlorobenzene	< 0.17	**1**	**0.98**	**12**	**2**	< 0.13
14-Dioxane	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
2-Butanone (MEK)	**12**	**1.2 J**	**1.3 J**	< 5.9	**4.4 J**	< 6.4
2-Hexanone	**0.39 J**	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
2-Propanol (Isopropyl Alcohol)	**23**	**2.8 J**	**3.4 J**	< 5.9	**3.7 J**	< 6.4
3-Chloro-1-propene(Allyl Chloride)	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
4-Ethyltoluene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
4-Methyl-2-pentanone	**0.51 J**	**0.31 J**	**0.36 J**	< 0.59	**0.62 J**	< 0.64
Acetone	**47**	**16**	**15**	**9**	**25**	**18**
Acetonitrile	**0.42 J**	**0.35 J**	**0.41 J**	< 0.59	< 1.1	< 0.64
Acrolein	**9.7**	**1.1 J**	**1 J**	< 2.4	**2.2 J**	< 2.6
Acrylonitrile	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
alpha-Pinene	**2.7**	**1.7**	**1.8**	< 0.59	**0.58 J**	< 0.64
Benzene	**0.5**	**0.74**	**0.77**	**0.19**	**1**	**0.2**
Benzyl Chloride	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
Bromodichloromethane	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
Bromoform	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
Bromomethane	< 0.34	< 0.34	< 0.3	< 0.24	< 0.43	< 0.26
Carbon Disulfide	**3.4 J**	< 8.6	**0.37 J**	< 5.9	**19**	< 6.4
Carbon Tetrachloride	**0.26**	**0.39**	**0.4**	**0.28**	**0.47**	**0.33**
Chlorobenzene	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
Chloroethane	< 0.34	< 0.34	< 0.3	< 0.24	< 0.43	< 0.26
Chloroform	< 0.17	**0.19**	**0.19**	**0.15**	**0.55**	**0.16**
Chloromethane	**0.65**	**0.66**	**0.64**	**0.29**	**0.55**	**0.52**
cis-12-Dichloroethene	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
cis-13-Dichloropropene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
Cyclohexane	< 1.7	< 1.7	< 1.5	< 1.2	< 2.2	< 1.3
Dibromochloromethane	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
Dichlorodifluoromethane (CFC 12)	**1.9**	**2**	**2**	**1.3**	**2.1**	**2.2**
Dichloromethane (Methylene Chloride)	**83**	**53**	**60**	**8.7**	**65**	**210 D**
d-Limonene	**1.8**	**1.7**	**1.7**	< 0.59	**3.8**	**1.2**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601872	P1601717	P1601717	P1601691	P1601737	P1601691
Location	Residence	Residence	Res Dup	Residence	Residence	Residence
Date Sampled	4/8/2016	3/31/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016
Ethanol	**82**	**42**	**47**	**14**	**90**	**63**
Ethyl Acetate	**5.4**	**1.2 J**	**1.3 J**	< 1.2	**14**	**3.8**
Ethylbenzene	**0.31 J**	**0.37 J**	**0.4 J**	< 0.59	**0.49 J**	< 0.64
Hexachlorobutadiene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
Isopropylbenzene (Cumene)	< 0.85	< 0.86	< 0.75	< 0.59	**5.8**	< 0.64
mp-Xylenes	**0.7 J**	**1**	**1.1**	< 0.59	**1.5**	< 0.64
Methyl Methacrylate	< 1.7	< 1.7	< 1.5	< 1.2	< 2.2	< 1.3
Methyl tert-Butyl Ether	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
Naphthalene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
n-Butyl Acetate	**0.98**	**1**	**1**	< 0.59	**0.67 J**	< 0.64
n-Heptane	**0.31 J**	< 0.86	**0.29 J**	< 0.59	**0.56 J**	< 0.64
n-Hexane	**0.49 J**	**0.43 J**	**0.44 J**	< 0.59	**0.8 J**	< 0.64
n-Nonane	**0.42 J**	**0.31 J**	**0.26 J**	< 0.59	**0.46 J**	< 0.64
n-Octane	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
n-Propylbenzene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
o-Xylene	**0.31 J**	**0.37 J**	**0.39 J**	< 0.59	**0.61 J**	< 0.64
Propene	**13**	**1.9**	**2.1**	< 0.59	**1.4**	**1.8**
Styrene	**5.7**	**0.35 J**	**0.36 J**	< 0.59	**0.33 J**	< 0.64
Tetrachloroethene	< 0.17	< 0.17	< 0.15	< 0.12	**0.17 J**	< 0.13
Tetrahydrofuran (THF)	**34**	< 0.86	< 0.75	< 0.59	**0.96 J**	< 0.64
Toluene	**6.1**	**2.5**	**2.5**	< 0.59	**3.2**	< 0.64
trans-12-Dichloroethene	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
trans-13-Dichloropropene	< 0.85	< 0.86	< 0.75	< 0.59	< 1.1	< 0.64
Trichloroethene (TCE)	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13
Trichlorofluoromethane (CFC 11)	**0.93**	**1**	**1**	**0.68**	**1.6**	**1.1**
Vinyl Acetate	< 8.5	< 8.6	< 7.5	< 5.9	**3.1 J**	< 6.4
Vinyl Chloride	< 0.17	< 0.17	< 0.15	< 0.12	< 0.22	< 0.13

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601690	P1601873	P1601806	P1601716	P1601806	P1601664
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/30/2016	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016
111-Trichloroethane (TCA)	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
1122-Tetrachloroethane	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
112-Trichloroethane	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
112-Trichlorotrifluoroethane	**0.52**	**0.49**	**0.48**	**0.53**	**0.38**	**0.49**
11-Dichloroethane (11-DCA)	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
11-Dichloroethene (11-DCE)	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
124-Trichlorobenzene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
124-Trimethylbenzene	< 0.93	< 0.96	**0.36 J**	**0.32 J**	< 0.67	< 1.1
12-Dibromo 3-Chloropropane	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
12-Dibromoethane	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
12-Dichlorobenzene	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
12-Dichloroethane	< 0.19	**0.23**	**0.72**	**0.64**	**0.27**	< 0.23
12-Dichloropropane	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
135-Trimethylbenzene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
13-Butadiene	< 0.37	< 0.38	< 0.44	< 0.31	< 0.27	< 0.45
13-Dichlorobenzene	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
14-Dichlorobenzene	< 0.19	**0.81**	< 0.22	< 0.16	< 0.13	< 0.23
14-Dioxane	< 0.93	< 0.96	< 1.1	**1.6**	< 0.67	< 1.1
2-Butanone (MEK)	**2 J**	**2.3 J**	**1.4 J**	**1.3 J**	**2 J**	< 11
2-Hexanone	< 0.93	< 0.96	< 1.1	**0.31 J**	< 0.67	< 1.1
2-Propanol (Isopropyl Alcohol)	**6.4 J**	**50**	**3.3 J**	**26**	**4.5 J**	< 11
3-Chloro-1-propene(Allyl Chloride)	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
4-Ethyltoluene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
4-Methyl-2-pentanone	< 0.93	< 0.96	< 1.1	**0.82**	< 0.67	< 1.1
Acetone	**10**	**76**	**17**	**20**	**17**	< 11
Acetonitrile	< 0.93	**0.41 J**	< 1.1	**3.8**	**0.27 J**	< 1.1
Acrolein	**1.1 J**	**3.2 J**	**1.3 J**	**0.65 J**	**2.1 J**	< 4.5
Acrylonitrile	< 0.93	< 0.96	< 1.1	**4.4**	< 0.67	< 1.1
alpha-Pinene	**0.3 J**	**14**	**2.2**	**1.2**	**1.4**	< 1.1
Benzene	**0.65**	**0.58**	**0.38**	**0.49**	**0.25**	**0.3**
Benzyl Chloride	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
Bromodichloromethane	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
Bromoform	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
Bromomethane	< 0.37	< 0.38	< 0.44	< 0.31	< 0.27	< 0.45
Carbon Disulfide	< 9.3	< 9.6	< 11	< 7.9	**0.72 J**	< 11
Carbon Tetrachloride	**0.47**	**0.74**	**0.41**	**0.46**	**0.47**	**0.45**
Chlorobenzene	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
Chloroethane	< 0.37	< 0.38	< 0.44	< 0.31	< 0.27	< 0.45
Chloroform	< 0.19	**0.61**	**0.27**	**0.2**	**0.13 J**	< 0.23
Chloromethane	**0.49**	< 0.38	< 0.44	**0.55**	**0.24 J V**	< 0.45
cis-12-Dichloroethene	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
cis-13-Dichloropropene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
Cyclohexane	< 1.9	< 1.9	< 2.2	< 1.6	< 1.3	< 2.3
Dibromochloromethane	< 0.19	< 0.19	< 0.22	**0.17**	< 0.13	< 0.23
Dichlorodifluoromethane (CFC 12)	**2.2**	**1.9**	**1.9**	**2.2**	**1.9**	**2.1**
Dichloromethane (Methylene Chloride)	**20**	**450 B, E**	**42**	**37 B**	**560 E**	**28**
d-Limonene	**2.8**	**6.3**	**7.6**	**20**	**0.89**	< 1.1

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601690	P1601873	P1601806	P1601716	P1601806	P1601664
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/30/2016	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016
Ethanol	**43**	**220**	**77**	**900 D**	**18**	< 11
Ethyl Acetate	**59**	**12**	**8.6**	**13**	**3.2**	< 2.3
Ethylbenzene	< 0.93	**0.32 J**	< 1.1	**0.51 J**	< 0.67	< 1.1
Hexachlorobutadiene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
Isopropylbenzene (Cumene)	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
mp-Xylenes	**0.65 J**	**1.4**	< 1.1	**0.97**	< 0.67	< 1.1
Methyl Methacrylate	< 1.9	< 1.9	< 2.2	< 1.6	< 1.3	< 2.3
Methyl tert-Butyl Ether	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
Naphthalene	< 0.93	< 0.96	< 1.1	**0.46 J**	< 0.67	< 1.1
n-Butyl Acetate	**0.62 J**	**0.46 J**	< 1.1	**0.71 J**	**0.23 J**	< 1.1
n-Heptane	**0.67 J**	**2.3**	< 1.1	**0.3 J**	< 0.67	< 1.1
n-Hexane	**0.47 J**	**0.36 J**	**0.36 J**	**0.28 J**	< 0.67	< 1.1
n-Nonane	**0.32 J**	**1.5**	< 1.1	< 0.79	< 0.67	< 1.1
n-Octane	< 0.93	**1.1**	< 1.1	< 0.79	< 0.67	< 1.1
n-Propylbenzene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
o-Xylene	< 0.93	**0.4 J**	< 1.1	**0.38 J**	< 0.67	< 1.1
Propene	**4.5**	**44**	**2.9**	**14**	**4**	**3.3**
Styrene	**0.4 J**	**1.1**	< 1.1	< 0.79	< 0.67	< 1.1
Tetrachloroethene	< 0.19	**0.18 J**	< 0.22	< 0.16	**0.24**	**0.4**
Tetrahydrofuran (THF)	**0.7 J**	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
Toluene	**2**	**2.8**	**1.1**	**1.5**	**0.86**	< 1.1
trans-12-Dichloroethene	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
trans-13-Dichloropropene	< 0.93	< 0.96	< 1.1	< 0.79	< 0.67	< 1.1
Trichloroethene (TCE)	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23
Trichlorofluoromethane (CFC 11)	**1.2**	**0.99**	**1**	**1.2**	**0.99**	**1.1**
Vinyl Acetate	**2.3 J**	**3 J**	< 11	**2.2 J**	**2.8 J**	< 11
Vinyl Chloride	< 0.19	< 0.19	< 0.22	< 0.16	< 0.13	< 0.23

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601742	P1601872	P1601742	P1601690	P1601804	P1601830
Location	Residence	Residence	Res Dup	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	3/31/2016	3/30/2016	4/4/2016	4/5/2016
111-Trichloroethane (TCA)	**6.6**	**0.14**	< 0.13	< 0.2	< 0.2	< 0.24
1122-Tetrachloroethane	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
112-Trichloroethane	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
112-Trichlorotrifluoroethane	**0.51**	**0.49**	**0.51**	**0.51**	**0.42**	**0.5**
11-Dichloroethane (11-DCA)	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
11-Dichloroethene (11-DCE)	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
124-Trichlorobenzene	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
124-Trimethylbenzene	**0.65 J**	**4.7**	**3.6**	< 1	**0.69 J**	< 1.2
12-Dibromo 3-Chloropropane	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
12-Dibromoethane	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
12-Dichlorobenzene	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
12-Dichloroethane	**0.29**	**0.94**	**0.61**	**1.2**	**4.4**	**0.17 J**
12-Dichloropropane	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
135-Trimethylbenzene	< 0.75	**1.2**	**0.87**	< 1	< 1	< 1.2
13-Butadiene	< 0.3	< 0.27	< 0.26	< 0.4	< 0.4	< 0.49
13-Dichlorobenzene	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
14-Dichlorobenzene	< 0.15	< 0.13	< 0.13	**0.89**	**0.21**	< 0.24
14-Dioxane	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
2-Butanone (MEK)	**2.7 J**	**14**	**8.8**	**0.9 J**	**8.9 J**	**2.5 J**
2-Hexanone	**0.3 J**	< 0.67	< 0.66	< 1	< 1	< 1.2
2-Propanol (Isopropyl Alcohol)	**69**	**3 J**	**2.8 J**	**27**	**20**	**14**
3-Chloro-1-propene(Allyl Chloride)	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
4-Ethyltoluene	**0.26 J**	**1.5**	**1.1**	< 1	< 1	< 1.2
4-Methyl-2-pentanone	**0.81**	**0.27 J**	< 0.66	< 1	**1**	< 1.2
Acetone	**38**	**53**	**36**	**23**	**120**	**37**
Acetonitrile	**0.38 J**	**0.43 J**	**0.37 J**	< 1	**1.5**	< 1.2
Acrolein	**8.3**	**2.6 J**	**2.1 J**	**1.9 J**	**4.5**	**1.7 J**
Acrylonitrile	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
alpha-Pinene	**2.5**	**2.6**	**1.4**	**2.8**	**4.3**	**9**
Benzene	**0.85**	**5**	**3.5**	**0.45**	**1.3**	**0.43**
Benzyl Chloride	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
Bromodichloromethane	< 0.15	< 0.13	< 0.13	< 0.2	**0.21**	< 0.24
Bromoform	< 0.75	< 0.67	< 0.66	< 1	**0.32 J**	< 1.2
Bromomethane	< 0.3	< 0.27	< 0.26	< 0.4	< 0.4	< 0.49
Carbon Disulfide	**2.9 J**	< 6.7	< 6.6	**0.45 J**	**4.4 J**	< 12
Carbon Tetrachloride	**0.45**	**0.41**	**0.41**	**0.47**	**0.55**	**0.37**
Chlorobenzene	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
Chloroethane	< 0.3	< 0.27	< 0.26	< 0.4	< 0.4	< 0.49
Chloroform	**0.45**	**0.21**	**0.12 J**	< 0.2	**0.77**	< 0.24
Chloromethane	**0.26 J**	**0.57**	**0.28**	**0.51**	**0.65**	**0.63**
cis-12-Dichloroethene	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
cis-13-Dichloropropene	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
Cyclohexane	**28**	**2.4**	**1.7**	< 2	< 2	< 2.4
Dibromochloromethane	< 0.15	< 0.13	**0.14**	< 0.2	**0.38**	< 0.24
Dichlorodifluoromethane (CFC 12)	**1.9**	**2.1**	**2**	**2.2**	**1.7**	**1.9**
Dichloromethane (Methylene Chloride)	**18 B**	**1.4**	**50 B**	**29**	**28**	**24**
d-Limonene	**520 D**	**2.8**	**1.2**	**51**	**130**	**8**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601742	P1601872	P1601742	P1601690	P1601804	P1601830
Location	Residence	Residence	Res Dup	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	3/31/2016	3/30/2016	4/4/2016	4/5/2016
Ethanol	**230**	**64**	**33**	**180**	**750**	**280**
Ethyl Acetate	**21**	< 1.3	**1.4**	**5.2**	**8.5**	**3.5**
Ethylbenzene	**45**	**4.5**	**3.1**	< 1	**0.58 J**	< 1.2
Hexachlorobutadiene	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
Isopropylbenzene (Cumene)	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
mp-Xylenes	**160**	**17**	**12**	< 1	**1.4**	< 1.2
Methyl Methacrylate	< 1.5	< 1.3	< 1.3	< 2	< 2	< 2.4
Methyl tert-Butyl Ether	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
Naphthalene	< 0.75	**0.35 J**	**0.36 J B**	< 1	**1.8**	< 1.2
n-Butyl Acetate	**0.93**	**0.9**	**0.5 J**	**1.6**	**2.5**	**1.3**
n-Heptane	**1.9**	**4.7**	**3.3**	< 1	**0.54 J**	**0.85 J**
n-Hexane	**0.61 J**	**7.5**	**5.4**	< 1	**0.84 J**	**0.71 J**
n-Nonane	**0.3 J**	**0.76**	**0.51 J**	**0.34 J**	< 1	< 1.2
n-Octane	**0.33 J**	**1.6**	**1.2**	< 1	**0.44 J**	< 1.2
n-Propylbenzene	< 0.75	**0.92**	**0.67**	< 1	< 1	< 1.2
o-Xylene	**30**	**5.1**	**3.6**	< 1	**0.67 J**	< 1.2
Propene	**67**	**2.8**	**3.4**	**17**	**7.5**	**5.9**
Styrene	**0.3 J**	**0.31 J**	**0.2 J**	< 1	**0.79 J**	< 1.2
Tetrachloroethene	**0.14 J**	**1.1**	**0.76**	< 0.2	**0.16 J**	< 0.24
Tetrahydrofuran (THF)	< 0.75	**39**	**24**	< 1	< 1	< 1.2
Toluene	**4**	**27**	**18**	**1.1**	**4.6**	**8.1**
trans-12-Dichloroethene	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
trans-13-Dichloropropene	< 0.75	< 0.67	< 0.66	< 1	< 1	< 1.2
Trichloroethene (TCE)	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24
Trichlorofluoromethane (CFC 11)	**1**	**2.9**	**2.3**	**1.1**	**0.93**	**1**
Vinyl Acetate	**7.2 J**	< 6.7	< 6.6	**2.6 J**	< 10	< 12
Vinyl Chloride	< 0.15	< 0.13	< 0.13	< 0.2	< 0.2	< 0.24

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601804	P1601717	P1601717	P1601740	P1601665	P1601665
Location	Residence	Residence	Residence	Residence	Residence	Res Ext
Date Sampled	4/4/2016	3/31/2016	3/31/2016	4/1/2016	3/29/2016	3/29/2016
111-Trichloroethane (TCA)	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
1122-Tetrachloroethane	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
112-Trichloroethane	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
112-Trichlorotrifluoroethane	**0.48**	**0.47**	**0.48**	**0.49**	**0.51**	**0.54**
11-Dichloroethane (11-DCA)	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
11-Dichloroethene (11-DCE)	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
124-Trichlorobenzene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
124-Trimethylbenzene	< 0.89	**0.45 J**	**0.27 J**	< 0.65	< 0.95	< 0.64
12-Dibromo 3-Chloropropane	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
12-Dibromoethane	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
12-Dichlorobenzene	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
12-Dichloroethane	**0.56**	< 0.19	< 0.13	**0.22**	< 0.19	< 0.13
12-Dichloropropane	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
135-Trimethylbenzene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
13-Butadiene	< 0.36	< 0.38	< 0.26	< 0.26	< 0.38	< 0.25
13-Dichlorobenzene	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
14-Dichlorobenzene	**0.81**	**1.2**	**0.43**	< 0.13	< 0.19	< 0.13
14-Dioxane	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
2-Butanone (MEK)	**2.1 J**	**1.8 J**	**11**	**1.1 J**	< 9.5	< 6.4
2-Hexanone	< 0.89	< 0.96	**0.56 J**	< 0.65	< 0.95	< 0.64
2-Propanol (Isopropyl Alcohol)	**4.2 J**	**6.9 J**	**19**	**3.2 J**	< 9.5	< 6.4
3-Chloro-1-propene(Allyl Chloride)	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
4-Ethyltoluene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
4-Methyl-2-pentanone	**0.35 J**	**0.32 J**	**0.45 J**	< 0.65	< 0.95	< 0.64
Acetone	**16**	**20**	**590**	**24**	**14**	< 6.4
Acetonitrile	< 0.89	< 0.96	**0.71**	**0.26 J**	< 0.95	< 0.64
Acrolein	**3.2 J**	**1.5 J**	**3**	**1.7 J**	< 3.8	< 2.5
Acrylonitrile	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
alpha-Pinene	**0.95**	**3.1**	**4.3**	**0.53 J**	< 0.95	< 0.64
Benzene	**0.36**	**1.4**	**0.65**	**0.5**	**0.39**	**0.23**
Benzyl Chloride	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
Bromodichloromethane	< 0.18	< 0.19	**0.28**	< 0.13	< 0.19	< 0.13
Bromoform	< 0.89	< 0.96	**0.45 J**	< 0.65	< 0.95	< 0.64
Bromomethane	< 0.36	< 0.38	< 0.26	< 0.26	< 0.38	< 0.25
Carbon Disulfide	**1.1 J**	< 9.6	< 6.4	< 6.5	< 9.5	< 6.4
Carbon Tetrachloride	**0.36**	**0.43**	**0.41**	**0.42**	**0.43**	**0.4**
Chlorobenzene	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
Chloroethane	< 0.36	< 0.38	< 0.26	< 0.26	< 0.38	< 0.25
Chloroform	**0.2**	< 0.19	**6.4**	**0.2**	< 0.19	< 0.13
Chloromethane	**0.64**	**0.63**	**0.59**	**0.68**	**0.69**	**0.69**
cis-12-Dichloroethene	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
cis-13-Dichloropropene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
Cyclohexane	< 1.8	< 1.9	**4.2**	**0.4 J**	< 1.9	< 1.3
Dibromochloromethane	< 0.18	< 0.19	**0.47**	< 0.13	< 0.19	< 0.13
Dichlorodifluoromethane (CFC 12)	**2**	**2**	**1.9**	**2.2**	**2**	**2.1**
Dichloromethane (Methylene Chloride)	**44**	**100**	**780 D**	**210 E**	**24**	**4.8**
d-Limonene	**0.93**	**2.5**	**29**	**2.7**	**1.3**	< 0.64

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601804	P1601717	P1601717	P1601740	P1601665	P1601665
Location	Residence	Residence	Residence	Residence	Residence	Res Ext
Date Sampled	4/4/2016	3/31/2016	3/31/2016	4/1/2016	3/29/2016	3/29/2016
Ethanol	**46**	**84**	**1000 D**	**120**	**380**	< 6.4
Ethyl Acetate	**2.6**	**1.1 J**	**47**	**6.9**	< 1.9	< 1.3
Ethylbenzene	< 0.89	**0.7 J**	**0.3 J**	< 0.65	< 0.95	< 0.64
Hexachlorobutadiene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
Isopropylbenzene (Cumene)	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
mp-Xylenes	**0.63 J**	**2.1**	**0.82**	**0.51 J**	< 0.95	< 0.64
Methyl Methacrylate	< 1.8	< 1.9	< 1.3	< 1.3	< 1.9	< 1.3
Methyl tert-Butyl Ether	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
Naphthalene	< 0.89	< 0.96	**0.45 J**	< 0.65	< 0.95	< 0.64
n-Butyl Acetate	**0.92**	**0.92 J**	**17**	**0.23 J**	< 0.95	< 0.64
n-Heptane	< 0.89	**0.67 J**	**2.1**	< 0.65	< 0.95	< 0.64
n-Hexane	< 0.89	**0.97**	**1.5**	**0.33 J**	< 0.95	< 0.64
n-Nonane	< 0.89	**0.53 J**	**0.22 J**	< 0.65	**1.5**	< 0.64
n-Octane	< 0.89	**0.47 J**	< 0.64	< 0.65	< 0.95	< 0.64
n-Propylbenzene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
o-Xylene	< 0.89	**0.69 J**	**0.29 J**	**0.19 J**	< 0.95	< 0.64
Propene	**2.7**	**3.4**	**8.8**	< 0.65	**1.5**	< 0.64
Styrene	**0.3 J**	**0.45 J**	**0.26 J**	< 0.65	< 0.95	< 0.64
Tetrachloroethene	**1.1**	**0.53**	< 0.13	< 0.13	< 0.19	< 0.13
Tetrahydrofuran (THF)	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
Toluene	**1.3**	**5.3**	**4.7**	**1**	**1.1**	< 0.64
trans-12-Dichloroethene	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
trans-13-Dichloropropene	< 0.89	< 0.96	< 0.64	< 0.65	< 0.95	< 0.64
Trichloroethene (TCE)	**0.17 J**	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13
Trichlorofluoromethane (CFC 11)	**1**	**1**	**1**	**1.2**	**1**	**1.1**
Vinyl Acetate	< 8.9	< 9.6	**7.3**	**1.9 J**	< 9.5	< 6.4
Vinyl Chloride	< 0.18	< 0.19	< 0.13	< 0.13	< 0.19	< 0.13

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601833	P1601833	P1601804	P1601804	P1601831	P1601831
Location	Residence	Res-Dup	Residence	Res Ext	Residence	Res Dup
Date Sampled	4/5/2016	4/5/2016	4/4/2016	4/4/2016	4/5/2016	4/5/2016
111-Trichloroethane (TCA)	**1.1**	**1.12**	< 0.38	< 0.22	< 0.23	< 0.25
1122-Tetrachloroethane	< 0.23	<0.19	< 0.38	< 0.22	< 0.23	< 0.25
112-Trichloroethane	< 0.23	<0.19	< 0.38	< 0.22	< 0.23	< 0.25
112-Trichlorotrifluoroethane	**0.76**	**0.759**	< 0.38	**0.44**	**0.53**	**0.52**
11-Dichloroethane (11-DCA)	< 0.23	<0.18	< 0.38	< 0.22	< 0.23	< 0.25
11-Dichloroethene (11-DCE)	< 0.23	<0.22	< 0.38	< 0.22	< 0.23	< 0.25
124-Trichlorobenzene	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
124-Trimethylbenzene	< 1.2	<0.35	< 1.9	**1.2**	< 1.2	< 1.2
12-Dibromo 3-Chloropropane	< 1.2	<0.23	< 1.9	< 1.1	< 1.2	< 1.2
12-Dibromoethane	< 0.23	<0.2	< 0.38	< 0.22	< 0.23	< 0.25
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.2	<0.44	< 1.9	< 1.1	< 1.2	< 1.2
12-Dichlorobenzene	< 0.23	<0.22	< 0.38	< 0.22	< 0.23	< 0.25
12-Dichloroethane	**0.26**	**0.288**	< 0.38	< 0.22	**1.6**	**1.5**
12-Dichloropropane	< 0.23	<0.19	< 0.38	< 0.22	< 0.23	< 0.25
135-Trimethylbenzene	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
13-Butadiene	< 0.46	<0.32	< 0.76	< 0.43	< 0.46	< 0.49
13-Dichlorobenzene	< 0.23	<0.17	< 0.38	< 0.22	< 0.23	< 0.25
14-Dichlorobenzene	< 0.23	<0.18	< 0.38	**0.65**	< 0.23	< 0.25
14-Dioxane	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
2-Butanone (MEK)	**1.7 J**	**1.72J**	**1 J**	**3.2 J**	**0.97 J**	**1 J**
2-Hexanone	< 1.2	<0.37	< 1.9	**0.35 J**	< 1.2	< 1.2
2-Propanol (Isopropyl Alcohol)	**22**	**21.6**	**5 J**	**0.92 J**	**2.2 J**	**2.1 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.23	<0.18	< 0.38	< 0.22	< 0.23	< 0.25
4-Ethyltoluene	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
4-Methyl-2-pentanone	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
Acetone	**27**	**26.5**	**14 J**	**22**	**15**	**16**
Acetonitrile	**0.71 J**	**0.689J**	< 1.9	< 1.1	< 1.2	< 1.2
Acrolein	**2.2 J**	**2.2J**	**0.78 J**	**2.6 J**	**0.65 J**	**0.67 J**
Acrylonitrile	< 1.2	<0.39	< 1.9	< 1.1	< 1.2	< 1.2
alpha-Pinene	**1.2 J**	**1.17**	< 1.9	**0.89 J**	**2**	**1.9**
Benzene	**0.56**	**0.557**	**0.71**	**0.32**	**0.8**	**0.51**
Benzyl Chloride	< 1.2	<0.26	< 1.9	< 1.1	< 1.2	< 1.2
Bromodichloromethane	< 0.23	<0.16	< 0.38	< 0.22	< 0.23	< 0.25
Bromoform	< 1.2	<0.35	< 1.9	< 1.1	< 1.2	< 1.2
Bromomethane	< 0.46	<0.22	< 0.76	< 0.43	< 0.46	< 0.49
Carbon Disulfide	< 12	<0.35	< 19	**0.79 J**	< 12	< 12
Carbon Tetrachloride	**0.39**	**0.408**	< 0.38	**0.36**	**0.52**	**0.51**
Chlorobenzene	< 0.23	<0.19	< 0.38	< 0.22	< 0.23	< 0.25
Chloroethane	< 0.46	<0.2	< 0.76	**0.24 J**	< 0.46	< 0.49
Chloroform	**0.35**	**0.353**	< 0.38	< 0.22	< 0.23	< 0.25
Chloromethane	**0.84**	**0.664**	< 0.76	**0.71**	**0.55**	**0.54**
cis-12-Dichloroethene	< 0.23	<0.21	< 0.38	< 0.22	< 0.23	< 0.25
cis-13-Dichloropropene	< 1.2	<0.32	< 1.9	< 1.1	< 1.2	< 1.2
Cyclohexane	< 2.3	<0.67	< 3.8	< 2.2	< 2.3	< 2.5
Dibromochloromethane	**0.22 J**	**0.23J**	< 0.38	< 0.22	< 0.23	< 0.25
Dichlorodifluoromethane (CFC 12)	**1.9**	**1.87**	**1.8 J**	**1.9**	**2.2**	**2.2**
Dichloromethane (Methylene Chloride)	**160**	**159**	**32**	**4.4**	**120**	**120**
d-Limonene	**9.3**	**9.31**	**6.9**	**4.2**	**0.61 J**	**0.5 J**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601833	P1601833	P1601804	P1601804	P1601831	P1601831
Location	Residence	Res-Dup	Residence	Res Ext	Residence	Res Dup
Date Sampled	4/5/2016	4/5/2016	4/4/2016	4/4/2016	4/5/2016	4/5/2016
Ethanol	**160**	**165**	**76**	**7.3 J**	**140**	**130**
Ethyl Acetate	**23**	**23.1**	**21**	**2.7**	**17**	**19**
Ethylbenzene	< 1.2	<0.37	< 1.9	**0.5 J**	< 1.2	< 1.2
Hexachlorobutadiene	< 1.2	<0.32	< 1.9	< 1.1	< 1.2	< 1.2
Isopropylbenzene (Cumene)	< 1.2	<0.35	< 1.9	**1.7**	< 1.2	< 1.2
mp-Xylenes	< 1.2	<0.67	< 1.9	**2.5**	< 1.2	< 1.2
Methyl Methacrylate	< 2.3	<0.72	< 3.8	< 2.2	< 2.3	< 2.5
Methyl tert-Butyl Ether	< 0.23	<0.22	< 0.38	< 0.22	< 0.23	< 0.25
Naphthalene	< 1.2	<0.42	< 1.9	**0.94 J**	< 1.2	< 1.2
n-Butyl Acetate	< 1.2	<0.37	< 1.9	< 1.1	**2.1**	**2**
n-Heptane	< 1.2	<0.39	< 1.9	< 1.1	< 1.2	< 1.2
n-Hexane	**0.54 J**	**0.559J**	< 1.9	< 1.1	< 1.2	**0.62 J**
n-Nonane	**0.44 J**	**0.385J**	< 1.9	**0.68 J**	< 1.2	< 1.2
n-Octane	< 1.2	<0.42	< 1.9	< 1.1	< 1.2	< 1.2
n-Propylbenzene	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
o-Xylene	< 1.2	<0.35	< 1.9	**1.2**	< 1.2	< 1.2
Propene	**12**	**12.7**	**3.4**	**1 J**	**1.8**	**1.7**
Styrene	< 1.2	<0.35	< 1.9	**0.82 J**	< 1.2	< 1.2
Tetrachloroethene	< 0.23	<0.17	**3.2**	< 0.22	< 0.23	< 0.25
Tetrahydrofuran (THF)	< 1.2	<0.46	< 1.9	< 1.1	< 1.2	< 1.2
Toluene	**3.3**	**3.29**	**3**	**1.9**	**0.76 J**	**0.79 J**
trans-12-Dichloroethene	< 0.23	<0.21	< 0.38	< 0.22	< 0.23	< 0.25
trans-13-Dichloropropene	< 1.2	<0.37	< 1.9	< 1.1	< 1.2	< 1.2
Trichloroethene (TCE)	< 0.23	<0.21	< 0.38	< 0.22	< 0.23	< 0.25
Trichlorofluoromethane (CFC 11)	**1.7**	**1.65**	**0.67**	**0.97**	**1.1**	**1.2**
Vinyl Acetate	< 12	<1.5	< 19	**7.3 J**	< 12	< 12
Vinyl Chloride	< 0.23	<0.22	< 0.38	< 0.22	< 0.23	< 0.25

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601832	P1601832	P1601665	P1601844	P1601690	P1601844
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/8/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016
111-Trichloroethane (TCA)	< 0.22	< 0.23	< 0.13	**0.3**	**0.16 J**	< 0.22
1122-Tetrachloroethane	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
112-Trichloroethane	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
112-Trichlorotrifluoroethane	**0.41**	**0.43**	**0.48**	**0.53**	**0.38**	**0.49**
11-Dichloroethane (11-DCA)	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
11-Dichloroethene (11-DCE)	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
124-Trichlorobenzene	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
124-Trimethylbenzene	**0.37 J**	**2.3**	< 0.65	< 1.1	< 1	**0.34 J**
12-Dibromo 3-Chloropropane	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
12-Dibromoethane	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
12-Dichlorobenzene	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
12-Dichloroethane	**0.31**	< 0.23	**0.35**	**1.3**	< 0.21	< 0.22
12-Dichloropropane	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
135-Trimethylbenzene	< 1.1	**0.67 J**	< 0.65	< 1.1	< 1	< 1.1
13-Butadiene	< 0.44	< 0.45	< 0.26	< 0.44	< 0.41	< 0.45
13-Dichlorobenzene	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
14-Dichlorobenzene	< 0.22	**2.2**	**1.1**	**2.4**	< 0.21	**3.3**
14-Dioxane	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
2-Butanone (MEK)	**1.6 J**	**2.6 J**	< 6.5	**80**	**0.72 J**	**1.8 J**
2-Hexanone	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
2-Propanol (Isopropyl Alcohol)	**6 J**	**44**	**41**	**20**	**0.96 J**	**21**
3-Chloro-1-propene(Allyl Chloride)	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
4-Ethyltoluene	< 1.1	**0.49 J**	< 0.65	< 1.1	< 1	< 1.1
4-Methyl-2-pentanone	< 1.1	**1.5**	< 0.65	**1.6**	< 1	< 1.1
Acetone	**33**	**74**	**30**	**460**	**6.8 J**	**28**
Acetonitrile	< 1.1	**0.44 J**	< 0.65	**2.4**	< 1	< 1.1
Acrolein	**1.5 J**	**2.9 J**	< 2.6	**55**	**0.86 J**	**2.8 J**
Acrylonitrile	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
alpha-Pinene	**0.88 J**	**4**	**1.6**	**3.5**	< 1	**1.6**
Benzene	**0.74**	**0.93**	**0.96**	**0.5**	**0.26**	**0.66**
Benzyl Chloride	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
Bromodichloromethane	< 0.22	**0.21 J**	< 0.13	< 0.22	< 0.21	< 0.22
Bromoform	< 1.1	**0.41 J**	< 0.65	< 1.1	< 1	< 1.1
Bromomethane	< 0.44	< 0.45	< 0.26	< 0.44	< 0.41	< 0.45
Carbon Disulfide	< 11	< 11	< 6.5	**16**	< 10	< 11
Carbon Tetrachloride	**0.32**	**0.38**	**0.46**	**0.53**	**0.32**	**0.43**
Chlorobenzene	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
Chloroethane	< 0.44	< 0.45	< 0.26	< 0.44	< 0.41	< 0.45
Chloroform	< 0.22	**0.35**	**1.8**	**0.2 J**	< 0.21	**0.64**
Chloromethane	**0.59**	**0.78**	**0.7**	**0.8**	**0.47**	**0.48**
cis-12-Dichloroethene	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
cis-13-Dichloropropene	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
Cyclohexane	< 2.2	< 2.3	< 1.3	< 2.2	< 2.1	< 2.2
Dibromochloromethane	< 0.22	**0.37**	**0.16**	< 0.22	< 0.21	< 0.22
Dichlorodifluoromethane (CFC 12)	**2.2**	**2.5**	**2.1**	**4.7**	**1.6**	**1.9**
Dichloromethane (Methylene Chloride)	**21**	**82**	**860 D**	**58**	**14**	**160**
d-Limonene	**3.9**	**30**	**24**	**13**	< 1	**14**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601832	P1601832	P1601665	P1601844	P1601690	P1601844
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/8/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016
Ethanol	**170**	**1800 D**	**200**	**120**	**5 J**	**360**
Ethyl Acetate	**41**	**15**	**7.8**	**8.3**	< 2.1	**17**
Ethylbenzene	**0.47 J**	**0.52 J**	< 0.65	**0.64 J**	< 1	**0.48 J**
Hexachlorobutadiene	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
Isopropylbenzene (Cumene)	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
mp-Xylenes	**1.5**	**1.4**	< 0.65	**1.7**	< 1	**1.6**
Methyl Methacrylate	< 2.2	< 2.3	< 1.3	< 2.2	< 2.1	< 2.2
Methyl tert-Butyl Ether	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
Naphthalene	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
n-Butyl Acetate	**1.2**	**3.3**	**1.8**	**1.3**	< 1	**2.5**
n-Heptane	**0.5 J**	**0.67 J**	< 0.65	**0.66 J**	**0.75 J**	**0.47 J**
n-Hexane	**0.67 J**	**0.72 J**	< 0.65	**1.5**	**0.63 J**	**0.54 J**
n-Nonane	< 1.1	**1.6**	< 0.65	**0.77 J**	**0.78 J**	< 1.1
n-Octane	< 1.1	**0.53 J**	< 0.65	**0.99 J**	**0.67 J**	< 1.1
n-Propylbenzene	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
o-Xylene	**0.48 J**	**0.55 J**	< 0.65	**0.47 J**	< 1	**0.49 J**
Propene	**4.5**	**8.1**	**24**	**27**	**0.86 J**	**9**
Styrene	< 1.1	**0.76 J**	< 0.65	**1.5**	< 1	**0.37 J**
Tetrachloroethene	**0.23**	**0.73**	< 0.13	**0.53**	< 0.21	**0.27**
Tetrahydrofuran (THF)	**0.99 J**	< 1.1	< 0.65	< 1.1	< 1	< 1.1
Toluene	**4**	**6.7**	**1.4**	**23**	< 1	**3.2**
trans-12-Dichloroethene	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
trans-13-Dichloropropene	< 1.1	< 1.1	< 0.65	< 1.1	< 1	< 1.1
Trichloroethene (TCE)	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22
Trichlorofluoromethane (CFC 11)	**1.3**	**1.1**	**1**	**1.4**	**0.84**	**1.2**
Vinyl Acetate	**2.9 J**	< 11	< 6.5	**53**	< 10	**1.8 J**
Vinyl Chloride	< 0.22	< 0.23	< 0.13	< 0.22	< 0.21	< 0.22

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601806	P1601665	P1601875	P1601875	P1601719	P1601718
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	3/29/2016	4/6/2016	4/6/2016	3/31/2016	3/31/2016
111-Trichloroethane (TCA)	< 0.22	< 0.2	< 0.22	<0.17	< 0.34	< 0.13
1122-Tetrachloroethane	< 0.22	< 0.2	< 0.22	<0.19	< 0.34	< 0.13
112-Trichloroethane	< 0.22	< 0.2	< 0.22	<0.18	< 0.34	< 0.13
112-Trichlorotrifluoroethane	**0.45**	**0.48**	**0.45**	**0.452**	**0.49**	**0.51**
11-Dichloroethane (11-DCA)	< 0.22	< 0.2	< 0.22	<0.18	< 0.34	< 0.13
11-Dichloroethene (11-DCE)	< 0.22	< 0.2	< 0.22	<0.21	< 0.34	< 0.13
124-Trichlorobenzene	< 1.1	< 0.99	< 1.1	<0.36	< 1.7	< 0.64
124-Trimethylbenzene	**0.38 J**	< 0.99	**0.43 J**	**0.432**	< 1.7	**4**
12-Dibromo 3-Chloropropane	< 1.1	< 0.99	< 1.1	<0.22	< 1.7	< 0.64
12-Dibromoethane	< 0.22	< 0.2	< 0.22	<0.19	< 0.34	< 0.13
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.1	< 0.99	< 1.1	<0.43	< 1.7	< 0.64
12-Dichlorobenzene	< 0.22	< 0.2	< 0.22	<0.21	< 0.34	< 0.13
12-Dichloroethane	**6.9**	< 0.2	**0.76**	**0.762**	**0.35**	< 0.13
12-Dichloropropane	< 0.22	< 0.2	< 0.22	<0.19	< 0.34	< 0.13
135-Trimethylbenzene	< 1.1	< 0.99	< 1.1	<0.36	< 1.7	**0.61 J**
13-Butadiene	< 0.44	< 0.4	< 0.45	<0.31	< 0.68	< 0.26
13-Dichlorobenzene	< 0.22	< 0.2	< 0.22	<0.17	< 0.34	< 0.13
14-Dichlorobenzene	**0.5**	< 0.2	< 0.22	<0.17	**1.2**	< 0.13
14-Dioxane	< 1.1	< 0.99	< 1.1	<0.36	< 1.7	< 0.64
2-Butanone (MEK)	**8.6 J**	< 9.9	**2.8 J**	**2.74J**	**16 J**	**0.6 J**
2-Hexanone	**1 J**	< 0.99	< 1.1	<0.36	< 1.7	< 0.64
2-Propanol (Isopropyl Alcohol)	**170**	< 9.9	**5.2 J**	**5.07J**	**25**	**12**
3-Chloro-1-propene(Allyl Chloride)	< 0.22	< 0.2	< 0.22	<0.17	< 0.34	< 0.13
4-Ethyltoluene	< 1.1	< 0.99	< 1.1	<0.36	< 1.7	**0.89**
4-Methyl-2-pentanone	**0.59 J**	< 0.99	**0.68 J**	**0.661J**	**0.59 J**	< 0.64
Acetone	**720**	**15**	**27**	**27.5**	**34**	**21**
Acetonitrile	**0.53 J**	< 0.99	< 1.1	<0.4	< 1.7	**0.47 J**
Acrolein	**4 J**	< 4	**1.9 J**	**1.91J**	**2.1 J**	**0.67 J**
Acrylonitrile	< 1.1	< 0.99	< 1.1	<0.38	< 1.7	< 0.64
alpha-Pinene	**9**	< 0.99	**0.74 J**	**0.777J**	**1.6 J**	< 0.64
Benzene	**3**	**0.39**	**0.61**	**0.632**	**0.53**	**0.53**
Benzyl Chloride	< 1.1	< 0.99	< 1.1	<0.25	< 1.7	< 0.64
Bromodichloromethane	**0.32**	< 0.2	< 0.22	<0.15	< 0.34	< 0.13
Bromoform	**0.82 J**	< 0.99	< 1.1	<0.34	< 1.7	< 0.64
Bromomethane	< 0.44	< 0.4	< 0.45	<0.21	< 0.68	< 0.26
Carbon Disulfide	**1.4 J**	< 9.9	**0.66 J**	**0.674J**	< 17	< 6.4
Carbon Tetrachloride	**0.41**	**0.37**	**0.37**	**0.37**	**0.48**	**0.54**
Chlorobenzene	< 0.22	< 0.2	< 0.22	<0.19	< 0.34	< 0.13
Chloroethane	< 0.44	< 0.4	< 0.45	<0.19	< 0.68	< 0.26
Chloroform	**0.34**	< 0.2	< 0.22	<0.2	< 0.34	**0.34**
Chloromethane	< 0.44	**0.65**	**0.62**	**0.547**	**0.52 J**	**0.61**
cis-12-Dichloroethene	< 0.22	< 0.2	< 0.22	<0.21	< 0.34	< 0.13
cis-13-Dichloropropene	< 1.1	< 0.99	< 1.1	<0.31	< 1.7	< 0.64
Cyclohexane	< 2.2	< 2	< 2.2	<0.65	< 3.4	< 1.3
Dibromochloromethane	**0.87**	< 0.2	< 0.22	<0.19	**0.33 J**	< 0.13
Dichlorodifluoromethane (CFC 12)	**1.8**	**2**	**1.9**	**1.91**	**2.1**	**2.1**
Dichloromethane (Methylene Chloride)	**220**	**32**	**9.4**	**9.54**	**43**	**2.3**
d-Limonene	**41**	**1.5**	**2.2**	**2.31**	**21**	**0.21 J**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601806	P1601665	P1601875	P1601875	P1601719	P1601718
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	3/29/2016	4/6/2016	4/6/2016	3/31/2016	3/31/2016
Ethanol	**340**	**150**	**180**	**179**	**190**	**7.8**
Ethyl Acetate	**10**	< 2	**7.5**	**7.79**	**8.3**	**0.49 J**
Ethylbenzene	**1 J**	< 0.99	**0.39 J**	**0.388J**	**0.58 J**	**0.25 J**
Hexachlorobutadiene	< 1.1	< 0.99	< 1.1	<0.31	< 1.7	< 0.64
Isopropylbenzene (Cumene)	**290 D**	< 0.99	< 1.1	<0.34	< 1.7	< 0.64
mp-Xylenes	**1.4**	< 0.99	**0.98 J**	**0.999J**	**1.6 J**	**1.4**
Methyl Methacrylate	< 2.2	< 2	< 2.2	<0.69	< 3.4	< 1.3
Methyl tert-Butyl Ether	< 0.22	< 0.2	< 0.22	<0.21	< 0.34	< 0.13
Naphthalene	< 1.1	< 0.99	< 1.1	<0.4	< 1.7	**0.34 J**
n-Butyl Acetate	**2.9**	< 0.99	**1.2**	**1.17**	**0.98 J**	**0.23 J**
n-Heptane	**1.1 J**	< 0.99	**0.41 J**	**0.408J**	< 1.7	**0.28 J**
n-Hexane	**0.6 J**	< 0.99	**0.56 J**	**0.567J**	< 1.7	**0.19 J**
n-Nonane	**0.34 J**	< 0.99	< 1.1	<0.34	< 1.7	**0.28 J**
n-Octane	**0.59 J**	< 0.99	< 1.1	<0.4	< 1.7	< 0.64
n-Propylbenzene	< 1.1	< 0.99	< 1.1	<0.36	< 1.7	**0.51 J**
o-Xylene	**3**	< 0.99	**0.39 J**	**0.396J**	**0.66 J**	**0.74**
Propene	**160**	**1.7**	**3.5**	**3.71**	**14**	**6.1**
Styrene	**2**	< 0.99	< 1.1	<0.34	< 1.7	< 0.64
Tetrachloroethene	**5.7**	< 0.2	**0.24**	**0.255**	< 0.34	< 0.13
Tetrahydrofuran (THF)	< 1.1	< 0.99	< 1.1	<0.45	< 1.7	< 0.64
Toluene	**21**	< 0.99	**2.5**	**2.6**	**2**	**0.41 J**
trans-12-Dichloroethene	< 0.22	< 0.2	< 0.22	<0.2	< 0.34	< 0.13
trans-13-Dichloropropene	< 1.1	< 0.99	< 1.1	<0.36	< 1.7	< 0.64
Trichloroethene (TCE)	**1.6**	< 0.2	< 0.22	<0.2	< 0.34	< 0.13
Trichlorofluoromethane (CFC 11)	**0.95**	**1**	**0.98**	**0.986**	**1.9**	**1.1**
Vinyl Acetate	**6.6 J**	< 9.9	< 11	<1.5	**7.5 J**	< 6.4
Vinyl Chloride	< 0.22	< 0.2	< 0.22	<0.21	< 0.34	< 0.13

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601830	P1601738	P1601668	P1601690	P1601738	P1601691
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/1/2016	3/29/2016	3/30/2016	4/1/2016	3/30/2016
111-Trichloroethane (TCA)	< 0.31	< 0.13	< 0.15	**0.59**	< 0.17	< 0.22
1122-Tetrachloroethane	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
112-Trichloroethane	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
112-Trichlorotrifluoroethane	**0.43**	**0.51**	**0.55**	**0.52**	**0.52**	**0.44**
11-Dichloroethane (11-DCA)	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
11-Dichloroethene (11-DCE)	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
124-Trichlorobenzene	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
124-Trimethylbenzene	**1.5 J**	**0.21 J**	< 0.73	**0.61 J**	**0.57 J**	< 1.1
12-Dibromo 3-Chloropropane	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
12-Dibromoethane	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
12-Dichlorobenzene	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
12-Dichloroethane	**0.6**	**0.5**	< 0.15	**0.18**	**0.12 J**	< 0.22
12-Dichloropropane	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
135-Trimethylbenzene	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
13-Butadiene	< 0.63	< 0.25	< 0.29	**0.21 J**	< 0.34	< 0.44
13-Dichlorobenzene	< 0.31	< 0.13	< 0.15	< 0.14	**0.14 J**	< 0.22
14-Dichlorobenzene	< 0.31	< 0.13	< 0.15	**0.56**	**0.14 J**	< 0.22
14-Dioxane	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
2-Butanone (MEK)	**9.2 J**	**1.4 J**	< 7.3	**0.8 J**	**27**	< 11
2-Hexanone	< 1.6	**0.21 J**	< 0.73	< 0.71	< 0.86	< 1.1
2-Propanol (Isopropyl Alcohol)	**130**	**4.9 J**	< 7.3	**74**	**9.2**	< 11
3-Chloro-1-propene(Allyl Chloride)	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
4-Ethyltoluene	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
4-Methyl-2-pentanone	**2.9**	< 0.63	< 0.73	**0.45 J**	**0.82 J**	< 1.1
Acetone	**55**	**22**	**9.3**	**15**	**180**	**26**
Acetonitrile	< 1.6	**0.28 J**	< 0.73	< 0.71	**0.44 J**	< 1.1
Acrolein	**2.7 J**	**1.2 J**	< 2.9	**1.2 J**	**2 J**	< 4.4
Acrylonitrile	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
alpha-Pinene	**1.2 J**	**6.5**	< 0.73	**0.7 J**	**10**	< 1.1
Benzene	**2.2**	**0.49**	**0.25**	**1.1**	**29**	**0.29**
Benzyl Chloride	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
Bromodichloromethane	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
Bromoform	< 1.6	< 0.63	< 0.73	< 0.71	**0.35 J**	< 1.1
Bromomethane	< 0.63	< 0.25	< 0.29	< 0.28	< 0.34	< 0.44
Carbon Disulfide	< 16	**0.21 J**	< 7.3	< 7.1	**1.1 J**	< 11
Carbon Tetrachloride	**0.36**	**0.47**	**0.47**	**0.49**	**0.5**	**0.46**
Chlorobenzene	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
Chloroethane	< 0.63	< 0.25	< 0.29	< 0.28	< 0.34	< 0.44
Chloroform	**0.37**	**0.18**	**0.15**	**0.13 J**	**0.28**	< 0.22
Chloromethane	**0.81**	**0.66**	**0.52**	**0.58**	**0.91**	**0.6**
cis-12-Dichloroethene	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
cis-13-Dichloropropene	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
Cyclohexane	**1.4 J**	< 1.3	< 1.5	< 1.4	< 1.7	< 2.2
Dibromochloromethane	< 0.31	< 0.13	< 0.15	< 0.14	**0.3**	**0.25**
Dichlorodifluoromethane (CFC 12)	**1.9**	**2.1**	**2.2**	**2.3**	**2.1**	**2.2**
Dichloromethane (Methylene Chloride)	**62**	**170 E**	**440 D**	**42**	**84**	**25**
d-Limonene	**7.9**	**4.4**	**0.8**	**0.8**	**14**	**7.5**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601830	P1601738	P1601668	P1601690	P1601738	P1601691
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/1/2016	3/29/2016	3/30/2016	4/1/2016	3/30/2016
Ethanol	**390**	**65**	**23**	**370**	**2000 D**	**170**
Ethyl Acetate	**19**	**4.8**	< 1.5	**5.6**	**21**	**6.9**
Ethylbenzene	**1.7**	**0.44 J**	< 0.73	**0.54 J**	**1.1**	< 1.1
Hexachlorobutadiene	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
Isopropylbenzene (Cumene)	< 1.6	< 0.63	< 0.73	< 0.71	**860 D**	< 1.1
mp-Xylenes	**5.4**	**1.2**	< 0.73	**1.8**	**2.2**	< 1.1
Methyl Methacrylate	< 3.1	< 1.3	< 1.5	< 1.4	< 1.7	< 2.2
Methyl tert-Butyl Ether	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
Naphthalene	< 1.6	**0.24 J**	< 0.73	< 0.71	< 0.86	< 1.1
n-Butyl Acetate	**2**	**7.2**	< 0.73	**0.45 J**	**9.4**	**1.7**
n-Heptane	**1.7**	**0.27 J**	< 0.73	**0.38 J**	**2.4**	< 1.1
n-Hexane	**2.9**	**0.46 J**	< 0.73	**0.6 J**	**2**	< 1.1
n-Nonane	**0.79 J**	< 0.63	< 0.73	< 0.71	**0.43 J**	< 1.1
n-Octane	**0.81 J**	< 0.63	< 0.73	< 0.71	**0.53 J**	< 1.1
n-Propylbenzene	< 1.6	< 0.63	< 0.73	< 0.71	**0.63 J**	< 1.1
o-Xylene	**1.8**	**0.49 J**	< 0.73	**0.62 J**	**0.86 J**	< 1.1
Propene	**59**	**3.7**	**1.4**	**43**	**5.8**	**6.3**
Styrene	**0.84 J**	**0.51 J**	< 0.73	< 0.71	**0.88**	< 1.1
Tetrachloroethene	**0.3 J**	**0.12 J**	< 0.15	< 0.14	< 0.17	< 0.22
Tetrahydrofuran (THF)	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
Toluene	**20**	**2.3**	< 0.73	**2.3**	**3.9**	**1.2**
trans-12-Dichloroethene	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
trans-13-Dichloropropene	< 1.6	< 0.63	< 0.73	< 0.71	< 0.86	< 1.1
Trichloroethene (TCE)	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22
Trichlorofluoromethane (CFC 11)	**1.1**	**1.1**	**1.1**	**1.6**	**1.2**	**1.1**
Vinyl Acetate	< 16	**1.9 J**	< 7.3	**3.1 J**	**8 J**	< 11
Vinyl Chloride	< 0.31	< 0.13	< 0.15	< 0.14	< 0.17	< 0.22

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601668	P1601805	P1601873	P1601873	P1601832	P1601832
Location	Residence	Residence	Residence	Res Ext	Residence	Res Ext
Date Sampled	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016	4/5/2016
111-Trichloroethane (TCA)	< 0.16	**0.25**	< 0.21	< 0.21	< 0.23	< 0.24
1122-Tetrachloroethane	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
112-Trichloroethane	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
112-Trichlorotrifluoroethane	**0.51**	**0.54**	**0.48**	**0.49**	**0.49**	**0.52**
11-Dichloroethane (11-DCA)	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
11-Dichloroethene (11-DCE)	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
124-Trichlorobenzene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
124-Trimethylbenzene	**0.83**	< 1	**0.81 J**	< 1.1	< 1.2	< 1.2
12-Dibromo 3-Chloropropane	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
12-Dibromoethane	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
12-Dichlorobenzene	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
12-Dichloroethane	**1.8**	**0.29**	**0.68**	< 0.21	**5.1**	< 0.24
12-Dichloropropane	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
135-Trimethylbenzene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
13-Butadiene	< 0.33	< 0.4	< 0.41	< 0.43	< 0.46	< 0.47
13-Dichlorobenzene	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
14-Dichlorobenzene	< 0.16	< 0.2	< 0.21	< 0.21	**9.4**	< 0.24
14-Dioxane	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
2-Butanone (MEK)	**15**	**4 J**	**4.3 J**	**1.7 J**	**1.6 J**	**0.78 J**
2-Hexanone	< 0.82	< 1	**0.54 J**	< 1.1	< 1.2	< 1.2
2-Propanol (Isopropyl Alcohol)	**15**	**20**	**19**	**1.1 J**	**2.9 J**	< 12
3-Chloro-1-propene(Allyl Chloride)	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
4-Ethyltoluene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
4-Methyl-2-pentanone	< 0.82	< 1	**1.6**	< 1.1	< 1.2	< 1.2
Acetone	**88**	**19**	**53**	**14**	**140**	**11 J**
Acetonitrile	**1.2**	< 1	**0.41 J**	< 1.1	< 1.2	< 1.2
Acrolein	< 3.3	**1.6 J**	**2.9 J**	**0.84 J**	**2 J**	< 4.7
Acrylonitrile	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
alpha-Pinene	**2.5**	**0.64 J**	**3.4**	**0.34 J**	**1.4**	< 1.2
Benzene	**1.1**	**0.56**	**1.1**	**0.63**	**0.84**	**0.71**
Benzyl Chloride	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
Bromodichloromethane	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
Bromoform	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
Bromomethane	< 0.33	< 0.4	< 0.41	< 0.43	< 0.46	< 0.47
Carbon Disulfide	< 8.2	**0.89 J**	< 10	< 11	< 12	< 12
Carbon Tetrachloride	**0.55**	**0.42**	**0.45**	**0.29**	**0.47**	**0.46**
Chlorobenzene	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
Chloroethane	< 0.33	< 0.4	< 0.41	< 0.43	< 0.46	< 0.47
Chloroform	< 0.16	**0.19 J**	**0.38**	**0.25**	< 0.23	< 0.24
Chloromethane	**0.56**	**0.49**	< 0.41	< 0.43	**0.57**	**0.51**
cis-12-Dichloroethene	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
cis-13-Dichloropropene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
Cyclohexane	< 1.6	< 2	< 2.1	< 2.1	< 2.3	< 2.4
Dibromochloromethane	**0.34**	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
Dichlorodifluoromethane (CFC 12)	**2.2**	**2.2**	**1.8**	**1.9**	**2.3**	**2.1**
Dichloromethane (Methylene Chloride)	**79**	**18**	**49 B**	**2.1 B**	**22**	**1.8**
d-Limonene	**49**	**8.3**	**15**	< 1.1	**3.4**	< 1.2

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601668	P1601805	P1601873	P1601873	P1601832	P1601832
Location	Residence	Residence	Residence	Res Ext	Residence	Res Ext
Date Sampled	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016	4/5/2016
Ethanol	**130**	**110**	**160**	**22**	**880**	**18**
Ethyl Acetate	**4.9**	**42**	**16**	**35**	**36**	**23**
Ethylbenzene	**1.5**	< 1	**2.6**	< 1.1	< 1.2	< 1.2
Hexachlorobutadiene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
Isopropylbenzene (Cumene)	< 0.82	**2.5**	< 1	< 1.1	< 1.2	< 1.2
mp-Xylenes	**5.3**	< 1	**8.7**	**0.74 J**	< 1.2	< 1.2
Methyl Methacrylate	< 1.6	< 2	< 2.1	< 2.1	< 2.3	< 2.4
Methyl tert-Butyl Ether	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
Naphthalene	**1.1**	< 1	< 1	< 1.1	**1.2**	< 1.2
n-Butyl Acetate	**1.1**	**0.57 J**	**2.8**	**0.35 J**	**0.8 J**	< 1.2
n-Heptane	**12**	< 1	**1.1**	< 1.1	**0.4 J**	< 1.2
n-Hexane	**1.1**	< 1	**0.8 J**	**0.39 J**	**0.51 J**	< 1.2
n-Nonane	< 0.82	< 1	**0.69 J**	< 1.1	**0.75 J**	< 1.2
n-Octane	< 0.82	< 1	**0.67 J**	< 1.1	< 1.2	< 1.2
n-Propylbenzene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
o-Xylene	**1.5**	< 1	**2.9**	< 1.1	< 1.2	< 1.2
Propene	**8.5**	**8.7**	**20**	**2.1**	**2.5**	**1 J**
Styrene	< 0.82	**0.47 J**	**0.91 J**	< 1.1	< 1.2	< 1.2
Tetrachloroethene	< 0.16	< 0.2	**0.44**	< 0.21	< 0.23	< 0.24
Tetrahydrofuran (THF)	**88**	< 1	**0.51 J**	< 1.1	< 1.2	< 1.2
Toluene	**6.5**	**1.7**	**6.3**	**2**	**1.8**	**1.2 J**
trans-12-Dichloroethene	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24
trans-13-Dichloropropene	< 0.82	< 1	< 1	< 1.1	< 1.2	< 1.2
Trichloroethene (TCE)	< 0.16	< 0.2	**0.46**	< 0.21	< 0.23	< 0.24
Trichlorofluoromethane (CFC 11)	**1.2**	**1.2**	**0.98**	**0.99**	**1.9**	**1.1**
Vinyl Acetate	< 8.2	**2.9 J**	**3 J**	< 11	**2.3 J**	< 12
Vinyl Chloride	< 0.16	< 0.2	< 0.21	< 0.21	< 0.23	< 0.24

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601666	P1601833	P1601833	P1601737	P1601872	P1601719
Location	Residence	Res Dup	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/5/2016	4/5/2016	4/1/2016	4/8/2016	3/31/2016
111-Trichloroethane (TCA)	< 0.16	< 0.14	< 0.13	< 0.16	**2.1**	< 0.21
1122-Tetrachloroethane	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
112-Trichloroethane	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
112-Trichlorotrifluoroethane	**0.5**	**0.47**	**0.53**	**0.37**	**0.48**	**0.47**
11-Dichloroethane (11-DCA)	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
11-Dichloroethene (11-DCE)	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
124-Trichlorobenzene	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
124-Trimethylbenzene	< 0.79	**3.5**	**1.9**	**0.33 J**	**0.22 J**	< 1
12-Dibromo 3-Chloropropane	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
12-Dibromoethane	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
12-Dichlorobenzene	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
12-Dichloroethane	**0.61**	**3**	**1.7**	**0.12 J**	**0.29**	**0.39**
12-Dichloropropane	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
135-Trimethylbenzene	< 0.79	**0.9**	**0.48 J**	< 0.82	< 0.63	< 1
13-Butadiene	< 0.31	< 0.29	< 0.26	< 0.33	< 0.25	< 0.41
13-Dichlorobenzene	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
14-Dichlorobenzene	**61**	< 0.14	< 0.13	**0.32**	**36**	< 0.21
14-Dioxane	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
2-Butanone (MEK)	< 7.9	**5.6 J**	**14**	**2.7 J**	**1.7 J**	**1.6 J**
2-Hexanone	< 0.79	**0.34 J**	< 0.66	< 0.82	< 0.63	< 1
2-Propanol (Isopropyl Alcohol)	< 7.9	**4.2 J**	**3.3 J**	**13**	**89**	**6.2 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
4-Ethyltoluene	< 0.79	**0.67 J**	**0.37 J**	< 0.82	< 0.63	< 1
4-Methyl-2-pentanone	< 0.79	**2.1**	**1.2**	**0.35 J**	**0.29 J**	**0.36 J**
Acetone	**43**	**37**	**32**	**17**	**26**	**16**
Acetonitrile	< 0.79	**1.4**	**1.9**	**0.65 J**	**0.28 J**	**0.38 J**
Acrolein	< 3.1	**4.3**	**2.2 J**	**2.2 J**	**1.9 J**	**1.1 J**
Acrylonitrile	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
alpha-Pinene	**1.4**	**2.1**	**1.6**	**0.87**	**1.6**	**1.6**
Benzene	**0.64**	**0.34**	**0.38**	**1.3**	**0.63**	**0.56**
Benzyl Chloride	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
Bromodichloromethane	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
Bromoform	< 0.79	**0.4 J**	**0.2 J**	< 0.82	< 0.63	< 1
Bromomethane	< 0.31	< 0.29	< 0.26	< 0.33	< 0.25	< 0.41
Carbon Disulfide	< 7.9	**3.1 J**	**2.2 J**	**6.9 J**	< 6.3	< 10
Carbon Tetrachloride	**0.51**	**0.41**	**0.42**	**0.34**	**0.4**	**0.46**
Chlorobenzene	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
Chloroethane	< 0.31	< 0.29	< 0.26	< 0.33	< 0.25	< 0.41
Chloroform	**0.26**	**0.37**	**0.25**	**0.3**	**0.26**	**0.19 J**
Chloromethane	**0.5**	**0.57**	**0.56**	**0.59**	**0.56**	**0.54**
cis-12-Dichloroethene	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
cis-13-Dichloropropene	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
Cyclohexane	< 1.6	< 1.4	< 1.3	< 1.6	< 1.3	< 2.1
Dibromochloromethane	< 0.16	**0.14 J**	< 0.13	< 0.16	< 0.13	< 0.21
Dichlorodifluoromethane (CFC 12)	**2.2**	**2.1**	**2.2**	**2.1**	**1.9**	**2.1**
Dichloromethane (Methylene Chloride)	**57**	**8.8**	**76**	**84**	**2.6**	**16**
d-Limonene	**48**	**3.9**	**2.1**	**6.6**	**3.7**	**2.6**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601666	P1601833	P1601833	P1601737	P1601872	P1601719
Location	Residence	Res Dup	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/5/2016	4/5/2016	4/1/2016	4/8/2016	3/31/2016
Ethanol	**79**	**160**	**83**	**56**	**92**	**29**
Ethyl Acetate	**20**	**4.1**	**6.4**	**230**	**1.4**	**5.1**
Ethylbenzene	< 0.79	**0.35 J**	**0.35 J**	**0.4 J**	**0.41 J**	**0.43 J**
Hexachlorobutadiene	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
Isopropylbenzene (Cumene)	< 0.79	< 0.72	< 0.66	**0.4 J**	< 0.63	< 1
mp-Xylenes	**1.1**	**1.1**	**1.1**	**1.3**	**1.3**	**0.99 J**
Methyl Methacrylate	< 1.6	**7**	**4.7**	< 1.6	< 1.3	< 2.1
Methyl tert-Butyl Ether	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
Naphthalene	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
n-Butyl Acetate	**10**	**1.8**	**1.1**	**0.56 J**	**0.6 J**	**1.8**
n-Heptane	< 0.79	**0.5 J**	**0.34 J**	**0.42 J**	**0.43 J**	**0.43 J**
n-Hexane	< 0.79	**0.76**	**0.99**	< 0.82	**0.63 J**	**0.4 J**
n-Nonane	< 0.79	**0.85**	**0.51 J**	< 0.82	**0.21 J**	**0.4 J**
n-Octane	< 0.79	< 0.72	< 0.66	< 0.82	**0.32 J**	< 1
n-Propylbenzene	< 0.79	**0.46 J**	**0.27 J**	< 0.82	< 0.63	< 1
o-Xylene	< 0.79	**0.56 J**	**0.42 J**	**0.47 J**	**0.34 J**	**0.38 J**
Propene	**3.1**	**3.1**	**2.4**	**8.1**	**39**	**2.9**
Styrene	< 0.79	**0.35 J**	**0.27 J**	**0.31 J**	**0.26 J**	**0.41 J**
Tetrachloroethene	< 0.16	< 0.14	< 0.13	< 0.16	**0.095 J**	< 0.21
Tetrahydrofuran (THF)	< 0.79	**2.6**	**1.8**	< 0.82	< 0.63	< 1
Toluene	**2.2**	**15**	**23**	**5.9**	**1.8**	**2.1**
trans-12-Dichloroethene	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
trans-13-Dichloropropene	< 0.79	< 0.72	< 0.66	< 0.82	< 0.63	< 1
Trichloroethene (TCE)	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21
Trichlorofluoromethane (CFC 11)	**1.3**	**1.1**	**1.2**	**0.84**	**1.1**	**1.1**
Vinyl Acetate	< 7.9	< 7.2	**4.8 J**	**6.7 J**	< 6.3	**2.7 J**
Vinyl Chloride	< 0.16	< 0.14	< 0.13	< 0.16	< 0.13	< 0.21

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601833	P1601719	P1601805	P1601873	P1601691	P1601691
Location	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/5/2016	3/31/2016	4/4/2016	4/6/2016	3/30/2016	3/30/2016
111-Trichloroethane (TCA)	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.12
1122-Tetrachloroethane	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.14
112-Trichloroethane	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.13
112-Trichlorotrifluoroethane	**0.47**	**0.51**	**0.5**	**0.94**	**0.52**	**0.511**
11-Dichloroethane (11-DCA)	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.13
11-Dichloroethene (11-DCE)	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.15
124-Trichlorobenzene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.27
124-Trimethylbenzene	< 0.72	**0.92 J**	< 1	< 1.1	< 0.83	<0.25
12-Dibromo 3-Chloropropane	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.16
12-Dibromoethane	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.14
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.32
12-Dichlorobenzene	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.15
12-Dichloroethane	**0.18**	**0.22 J**	**0.22**	**0.19 J**	< 0.17	<0.1
12-Dichloropropane	**0.12 J**	< 0.23	< 0.2	< 0.21	< 0.17	<0.14
135-Trimethylbenzene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.27
13-Butadiene	< 0.29	< 0.46	< 0.41	< 0.42	< 0.33	<0.23
13-Dichlorobenzene	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.12
14-Dichlorobenzene	**0.11 J**	< 0.23	< 0.2	< 0.21	**5.8**	**5.6**
14-Dioxane	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.27
2-Butanone (MEK)	**11**	**2.9 J**	**1.9 J**	**2.1 J**	< 8.3	<0.35
2-Hexanone	**0.52 J**	< 1.1	< 1	< 1.1	< 0.83	<0.27
2-Propanol (Isopropyl Alcohol)	**12**	**3.5 J**	**8.9 J**	**0.99 J**	< 8.3	<0.7
3-Chloro-1-propene(Allyl Chloride)	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.13
4-Ethyltoluene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.27
4-Methyl-2-pentanone	**0.34 J**	< 1.1	< 1	**0.88 J**	< 0.83	<0.27
Acetone	**5000 D**	**25**	**18**	**28**	**10**	**9.68**
Acetonitrile	< 0.72	**2.9**	**0.39 J**	**15**	< 0.83	<0.3
Acrolein	**2.7 J**	**1.7 J**	**2.4 J**	**1.9 J**	< 3.3	<0.28
Acrylonitrile	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.28
alpha-Pinene	**2.5**	**1.2**	**1.4**	**1.1**	< 0.83	<0.23
Benzene	**0.45**	**0.56**	**0.86**	**0.56**	**0.83**	**0.827**
Benzyl Chloride	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.18
Bromodichloromethane	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.11
Bromoform	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.25
Bromomethane	< 0.29	< 0.46	< 0.41	< 0.42	< 0.33	<0.15
Carbon Disulfide	**1.5 J**	< 11	**0.55 J**	**3.5 J**	< 8.3	<0.25
Carbon Tetrachloride	**0.41**	**0.47**	**0.45**	**0.8**	**0.5**	**0.496**
Chlorobenzene	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.14
Chloroethane	< 0.29	< 0.46	< 0.41	< 0.42	< 0.33	<0.14
Chloroform	**0.33**	< 0.23	< 0.2	< 0.21	**0.38**	**0.374**
Chloromethane	**0.62**	**0.52**	**0.51**	**0.35 J**	**0.53**	**0.433**
cis-12-Dichloroethene	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.15
cis-13-Dichloropropene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.23
Cyclohexane	< 1.4	< 2.3	< 2	< 2.1	< 1.7	<0.48
Dibromochloromethane	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.14
Dichlorodifluoromethane (CFC 12)	**1.8**	**2.2**	**2.1**	**3.6**	**2.2**	**2.17**
Dichloromethane (Methylene Chloride)	**180 D**	**24**	**90**	**21 B**	**17**	**16.6**
d-Limonene	**3.6**	**11**	**3.1**	**2.8**	**1.3**	**1.24**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601833	P1601719	P1601805	P1601873	P1601691	P1601691
Location	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/5/2016	3/31/2016	4/4/2016	4/6/2016	3/30/2016	3/30/2016
Ethanol	**120**	**140**	**30**	**32**	**55**	**54.6**
Ethyl Acetate	**11**	**3.3**	**110**	**12**	**3.1**	**3.15**
Ethylbenzene	**0.38 J**	**1.5**	< 1	< 1.1	< 0.83	<0.27
Hexachlorobutadiene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.23
Isopropylbenzene (Cumene)	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.25
mp-Xylenes	**0.8**	**1.8**	< 1	**0.98 J**	**1.1**	**1.04**
Methyl Methacrylate	< 1.4	< 2.3	< 2	< 2.1	< 1.7	<0.51
Methyl tert-Butyl Ether	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.15
Naphthalene	< 0.72	**1.3**	< 1	< 1.1	< 0.83	<0.3
n-Butyl Acetate	**1.6**	**0.87 J**	**1.2**	**0.69 J**	**0.92**	**0.863**
n-Heptane	**0.56 J**	**0.57 J**	**0.41 J**	< 1.1	< 0.83	<0.28
n-Hexane	**0.44 J**	**0.61 J**	**0.37 J**	**13**	< 0.83	<0.25
n-Nonane	**0.3 J**	**0.7 J**	< 1	**0.37 J**	< 0.83	<0.25
n-Octane	**0.28 J**	**0.73 J**	< 1	< 1.1	< 0.83	<0.3
n-Propylbenzene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.27
o-Xylene	**0.33 J**	**0.6 J**	< 1	**0.34 J**	< 0.83	<0.25
Propene	**6.3**	**1.6**	**4.5**	**1.1**	**1.4**	**1.37**
Styrene	**0.45 J**	**0.53 J**	< 1	< 1.1	< 0.83	<0.25
Tetrachloroethene	**0.25**	< 0.23	< 0.2	< 0.21	< 0.17	<0.12
Tetrahydrofuran (THF)	< 0.72	**1.2**	< 1	**3.2**	< 0.83	<0.33
Toluene	**3.3**	**1.8**	**3.3**	**43**	**1.8**	**1.7**
trans-12-Dichloroethene	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.15
trans-13-Dichloropropene	< 0.72	< 1.1	< 1	< 1.1	< 0.83	<0.27
Trichloroethene (TCE)	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.15
Trichlorofluoromethane (CFC 11)	**1.1**	**1.2**	**1.1**	**1.9**	**1.2**	**1.16**
Vinyl Acetate	< 7.2	**5.8 J**	**4.2 J**	**1.7 J**	< 8.3	<1.1
Vinyl Chloride	< 0.14	< 0.23	< 0.2	< 0.21	< 0.17	<0.16

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601666	P1601666	P1601831	P1601844	P1601844	P1601872
Location	Residence	Residence	Residence	Residence	Res Dup	Residence
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/6/2016	4/6/2016	4/8/2016
111-Trichloroethane (TCA)	< 0.13	< 0.21	< 0.2	**0.24**	**0.23**	< 0.2
1122-Tetrachloroethane	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
112-Trichloroethane	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
112-Trichlorotrifluoroethane	**0.53**	**0.51**	**0.5**	**0.51**	**0.52**	**0.45**
11-Dichloroethane (11-DCA)	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
11-Dichloroethene (11-DCE)	< 0.13	< 0.21	**0.24**	< 0.2	< 0.2	< 0.2
124-Trichlorobenzene	< 0.64	< 1	< 1	< 1	< 1	< 1
124-Trimethylbenzene	< 0.64	< 1	**0.84 J**	**0.68 J**	**0.61 J**	**2**
12-Dibromo 3-Chloropropane	< 0.64	< 1	< 1	< 1	< 1	< 1
12-Dibromoethane	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.64	< 1	< 1	< 1	< 1	< 1
12-Dichlorobenzene	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
12-Dichloroethane	**0.17**	**0.45**	**0.84**	**2.2**	**2.1**	< 0.2
12-Dichloropropane	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
135-Trimethylbenzene	< 0.64	< 1	< 1	< 1	< 1	**0.5 J**
13-Butadiene	< 0.25	< 0.42	< 0.4	< 0.4	< 0.41	< 0.4
13-Dichlorobenzene	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
14-Dichlorobenzene	< 0.13	< 0.21	**11**	**3**	**3.1**	< 0.2
14-Dioxane	< 0.64	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 6.4	< 10	**3 J**	**4.1 J**	**4.2 J**	**2.6 J**
2-Hexanone	< 0.64	< 1	< 1	**0.63 J**	**0.57 J**	< 1
2-Propanol (Isopropyl Alcohol)	**900 D**	< 10	**29**	**66**	**64**	**410**
3-Chloro-1-propene(Allyl Chloride)	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
4-Ethyltoluene	< 0.64	< 1	< 1	< 1	< 1	**0.6 J**
4-Methyl-2-pentanone	< 0.64	< 1	**0.93 J**	**1.6**	**1.4**	**0.46 J**
Acetone	**160**	**11**	**26**	**54**	**53**	**52**
Acetonitrile	< 0.64	< 1	< 1	**0.37 J**	< 1	**0.43 J**
Acrolein	< 2.5	< 4.2	**3 J**	**6.8**	**5.7**	**2 J**
Acrylonitrile	< 0.64	< 1	< 1	< 1	< 1	**0.47 J**
alpha-Pinene	**0.87**	< 1	**2.3**	**98**	**98**	**3.5**
Benzene	**0.51**	**0.41**	**1.4**	**0.75**	**0.71**	**3.3**
Benzyl Chloride	< 0.64	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.13	< 0.21	< 0.2	**0.21**	< 0.2	< 0.2
Bromoform	< 0.64	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 0.25	< 0.42	< 0.4	< 0.4	< 0.41	< 0.4
Carbon Disulfide	< 6.4	< 10	**0.82 J**	**4.9 J**	**1.5 J**	< 10
Carbon Tetrachloride	**0.48**	**0.47**	**0.59**	**0.54**	**0.53**	**0.37**
Chlorobenzene	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
Chloroethane	< 0.25	< 0.42	< 0.4	< 0.4	< 0.41	< 0.4
Chloroform	**0.13**	< 0.21	**1.2**	**0.45**	**0.45**	**0.47**
Chloromethane	**0.6**	**0.5**	**0.59**	**0.63**	**0.6**	**0.69**
cis-12-Dichloroethene	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
cis-13-Dichloropropene	< 0.64	< 1	< 1	< 1	< 1	< 1
Cyclohexane	< 1.3	< 2.1	< 2	< 2	< 2	**0.59 J**
Dibromochloromethane	< 0.13	< 0.21	< 0.2	**0.2 J**	**0.19 J**	< 0.2
Dichlorodifluoromethane (CFC 12)	**2.1**	**2.1**	**2.2**	**5.5**	**5.4**	**1.9**
Dichloromethane (Methylene Chloride)	**470 D**	**22**	**22**	**180**	**180**	**200**
d-Limonene	**2.3**	**1.2**	**17**	**14**	**13**	**22**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601666	P1601666	P1601831	P1601844	P1601844	P1601872
Location	Residence	Residence	Residence	Residence	Res Dup	Residence
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/6/2016	4/6/2016	4/8/2016
Ethanol	**27**	**67**	**300**	**280**	**270**	**430**
Ethyl Acetate	< 1.3	< 2.1	**14**	**3.4**	**3.4**	**22**
Ethylbenzene	< 0.64	< 1	**0.95 J**	**0.7 J**	**0.69 J**	**2.3**
Hexachlorobutadiene	< 0.64	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene (Cumene)	< 0.64	< 1	**3.3**	**0.35 J**	**1.2**	< 1
mp-Xylenes	< 0.64	< 1	**2.8**	**2.2**	**2.2**	**8.1**
Methyl Methacrylate	< 1.3	< 2.1	< 2	< 2	< 2	< 2
Methyl tert-Butyl Ether	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
Naphthalene	< 0.64	< 1	**0.49 J**	< 1	< 1	< 1
n-Butyl Acetate	< 0.64	< 1	**0.97 J**	**1.5**	**1.4**	**4.5**
n-Heptane	**3.1**	**2.6**	**1.5**	**5.5**	**5.2**	**1.1**
n-Hexane	< 0.64	< 1	**1.9**	**0.73 J**	**0.73 J**	**1.9**
n-Nonane	< 0.64	< 1	< 1	**1.7**	**1.6**	< 1
n-Octane	< 0.64	< 1	**0.59 J**	**0.46 J**	**0.44 J**	**0.47 J**
n-Propylbenzene	< 0.64	< 1	< 1	< 1	< 1	**0.37 J**
o-Xylene	< 0.64	< 1	**0.99 J**	**2.5**	**0.82 J**	**2.8**
Propene	**15 D**	< 1	**16**	**23**	**21**	**190**
Styrene	< 0.64	< 1	< 1	**1.9**	**1.9**	**0.81 J**
Tetrachloroethene	< 0.13	< 0.21	**0.63**	< 0.2	< 0.2	< 0.2
Tetrahydrofuran (THF)	< 0.64	< 1	< 1	< 1	< 1	< 1
Toluene	**0.93**	< 1	**10**	**4.9**	**5.1**	**15**
trans-12-Dichloroethene	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
trans-13-Dichloropropene	< 0.64	< 1	< 1	< 1	< 1	< 1
Trichloroethene (TCE)	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2
Trichlorofluoromethane (CFC 11)	**1.1**	**1.1**	**1.1**	**2.9**	**2.9**	**0.99**
Vinyl Acetate	< 6.4	< 10	**3.7 J**	**3.6 J**	**5.5 J**	< 10
Vinyl Chloride	< 0.13	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601846	P1601846	P1601846	P1601875	P1601875	P1601875
Location	School	School-Ext	School	School	School	School
Date Sampled	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
111-Trichloroethane (TCA)	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
1122-Tetrachloroethane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
112-Trichloroethane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
112-Trichlorotrifluoroethane	**0.45**	**0.45**	**0.51**	**0.47**	**0.5**	**0.54**
11-Dichloroethane (11-DCA)	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
11-Dichloroethene (11-DCE)	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
124-Trichlorobenzene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
124-Trimethylbenzene	**0.79 J**	< 0.96	**0.4 J**	< 0.98	< 0.87	< 0.94
12-Dibromo 3-Chloropropane	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
12-Dibromoethane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
12-Dichlorobenzene	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
12-Dichloroethane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
12-Dichloropropane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
135-Trimethylbenzene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
13-Butadiene	< 0.44	< 0.38	< 0.41	< 0.39	< 0.35	< 0.38
13-Dichlorobenzene	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
14-Dichlorobenzene	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
14-Dioxane	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
2-Butanone (MEK)	**4 J**	**1.3 J**	**4.1 J**	**1.2 J**	**1.6 J**	**0.69 J**
2-Hexanone	**0.56 J**	< 0.96	< 1	< 0.98	< 0.87	< 0.94
2-Propanol (Isopropyl Alcohol)	**2.1 J**	**1.2 J**	**1.3 J**	**1.8 J**	**6.6 J**	**0.93 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
4-Ethyltoluene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
4-Methyl-2-pentanone	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Acetone	**26**	**15**	**21**	**14**	**18**	**10**
Acetonitrile	< 1.1	**0.44 J**	**0.93 J**	**1.6**	**0.75 J**	< 0.94
Acrolein	**3 J**	< 3.8	**1.1 J**	< 3.9	**0.3 J**	< 3.8
Acrylonitrile	< 1.1	< 0.96	< 1	**0.96 J**	**0.34 J**	< 0.94
alpha-Pinene	**0.51 J**	**0.58 J**	**0.79 J**	< 0.98	< 0.87	< 0.94
Benzene	**0.67**	**0.72**	**0.68**	**0.49**	**0.66**	**0.28**
Benzyl Chloride	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Bromodichloromethane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
Bromoform	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Bromomethane	< 0.44	< 0.38	< 0.41	< 0.39	< 0.35	< 0.38
Carbon Disulfide	**1.3 J**	< 9.6	**2.4 J**	< 9.8	< 8.7	< 9.4
Carbon Tetrachloride	**0.36**	**0.38**	**0.41**	**0.36**	**0.35**	**0.4**
Chlorobenzene	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
Chloroethane	< 0.44	< 0.38	< 0.41	< 0.39	< 0.35	< 0.38
Chloroform	< 0.22	**0.18 J**	< 0.21	< 0.2	**0.16 J**	< 0.19
Chloromethane	**0.66**	**0.6**	**0.53**	**0.51**	**0.62**	**0.59**
cis-12-Dichloroethene	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
cis-13-Dichloropropene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Cyclohexane	< 2.2	< 1.9	< 2.1	< 2	< 1.7	< 1.9
Dibromochloromethane	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
Dichlorodifluoromethane (CFC 12)	**1.9**	**2**	**2.1**	**1.9**	**1.9**	**1.9**
Dichloromethane (Methylene Chloride)	**120**	**1.7**	**15**	**33**	**24**	**24**
d-Limonene	< 1.1	< 0.96	**0.49 J**	< 0.98	**0.64 J**	< 0.94

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601846	P1601846	P1601846	P1601875	P1601875	P1601875
Location	School	School-Ext	School	School	School	School
Date Sampled	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
Ethanol	**22**	**37**	**19**	**14**	**14**	**14**
Ethyl Acetate	< 2.2	**1.1 J**	**2.1**	**3.5**	**1.3 J**	**1.3 J**
Ethylbenzene	**0.37 J**	**0.31 J**	**0.34 J**	< 0.98	< 0.87	< 0.94
Hexachlorobutadiene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Isopropylbenzene (Cumene)	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
mp-Xylenes	**1.2**	**0.81 J**	**0.98 J**	< 0.98	**0.52 J**	< 0.94
Methyl Methacrylate	< 2.2	< 1.9	< 2.1	< 2	< 1.7	< 1.9
Methyl tert-Butyl Ether	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
Naphthalene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
n-Butyl Acetate	**0.54 J**	**0.35 J**	**0.37 J**	**0.36 J**	< 0.87	< 0.94
n-Heptane	**1 J**	**0.33 J**	< 1	< 0.98	< 0.87	< 0.94
n-Hexane	**0.54 J**	**0.52 J**	**1.3**	< 0.98	**0.36 J**	< 0.94
n-Nonane	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
n-Octane	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
n-Propylbenzene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
o-Xylene	**0.57 J**	**0.32 J**	**0.46 J**	< 0.98	< 0.87	< 0.94
Propene	**2.3**	**1.2**	**1.1**	**1.1**	**3.2**	**1.1**
Styrene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Tetrachloroethene	< 0.22	**0.16 J**	< 0.21	< 0.2	< 0.17	< 0.19
Tetrahydrofuran (THF)	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Toluene	**1.8**	**2.1**	**5.1**	**1.3**	**1.9**	**0.69 J**
trans-12-Dichloroethene	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
trans-13-Dichloropropene	< 1.1	< 0.96	< 1	< 0.98	< 0.87	< 0.94
Trichloroethene (TCE)	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19
Trichlorofluoromethane (CFC 11)	**0.97**	**1**	**1.1**	**1**	**1**	**1.1**
Vinyl Acetate	**2.7 J**	< 9.6	< 10	< 9.8	< 8.7	< 9.4
Vinyl Chloride	< 0.22	< 0.19	< 0.21	< 0.2	< 0.17	< 0.19

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601737	P1601691	P1601737	P1601830	P1601830	P1601740
Location	Control	Control	Control	Control	Control	Control
Date Sampled	4/1/2016	3/30/2016	4/1/2016	4/5/2016	4/5/2016	4/1/2016
111-Trichloroethane (TCA)	**2.8**	< 0.19	**0.3**	< 0.12	< 0.23	**2.2**
1122-Tetrachloroethane	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
112-Trichloroethane	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
112-Trichlorotrifluoroethane	**0.49**	**0.53**	**0.5**	**0.47**	**0.45**	**0.49**
11-Dichloroethane (11-DCA)	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
11-Dichloroethene (11-DCE)	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
124-Trichlorobenzene	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
124-Trimethylbenzene	**1.1**	< 0.96	**3.2**	**0.81**	**0.51 J**	**4.5**
12-Dibromo 3-Chloropropane	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
12-Dibromoethane	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
12-Dichlorobenzene	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
12-Dichloroethane	**0.3**	< 0.19	**1.3**	**0.65**	**0.66**	< 0.2
12-Dichloropropane	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
135-Trimethylbenzene	**0.3 J**	< 0.96	**0.85 J**	**0.25 J**	< 1.1	**1.3**
13-Butadiene	< 0.37	< 0.38	< 0.43	< 0.25	< 0.46	< 0.4
13-Dichlorobenzene	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
14-Dichlorobenzene	**0.15 J**	< 0.19	**0.68**	**0.32**	**0.55**	< 0.2
14-Dioxane	< 0.93	< 0.96	**0.38 J**	< 0.62	< 1.1	< 1
2-Butanone (MEK)	**3.1 J**	< 9.6	**65**	**5.5 J**	**3.6 J**	**4.2 J**
2-Hexanone	< 0.93	< 0.96	**0.62 J**	**0.45 J**	**0.62 J**	< 1
2-Propanol (Isopropyl Alcohol)	**6.9 J**	< 9.6	**27**	**21**	**32**	**4.5 J**
3-Chloro-1-propene(Allyl Chloride)	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
4-Ethyltoluene	**0.34 J**	< 0.96	**0.76 J**	**0.28 J**	< 1.1	**1.2**
4-Methyl-2-pentanone	**1.1**	< 0.96	**0.65 J**	**0.58 J**	**0.82 J**	**0.53 J**
Acetone	**33**	**19**	**140**	**60**	**89**	**35**
Acetonitrile	< 0.93	< 0.96	**0.46 J**	**0.51 J**	< 1.1	**0.47 J**
Acrolein	**7.8**	< 3.8	**4.1 J**	**2.7**	**3.6 J**	**2 J**
Acrylonitrile	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
alpha-Pinene	**1.7**	< 0.96	**9.7**	**8.5**	**7.5**	**2.2**
Benzene	**2.2**	**0.67**	**1.5**	**1.2**	**1.5**	**5.8**
Benzyl Chloride	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
Bromodichloromethane	< 0.19	< 0.19	**0.37**	< 0.12	**0.23 J**	< 0.2
Bromoform	**0.29 J**	< 0.96	**0.42 J**	**0.22 J**	**0.7 J**	< 1
Bromomethane	< 0.37	< 0.38	< 0.43	< 0.25	< 0.46	< 0.4
Carbon Disulfide	**17**	< 9.6	**1.9 J**	< 6.2	< 11	**0.87 J**
Carbon Tetrachloride	**0.61**	**0.53**	**0.47**	**0.4**	**0.39**	**0.49**
Chlorobenzene	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
Chloroethane	< 0.37	< 0.38	< 0.43	< 0.25	< 0.46	< 0.4
Chloroform	**0.71**	**0.59**	**1.2**	**0.67**	**0.6**	**0.67**
Chloromethane	**0.69**	**0.59**	**0.76**	**0.64**	**0.81**	**0.63**
cis-12-Dichloroethene	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
cis-13-Dichloropropene	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
Cyclohexane	**0.98 J**	< 1.9	**1.5 J**	**0.6 J**	**1.3 J**	**7.5**
Dibromochloromethane	**0.18 J**	< 0.19	**0.38**	**0.16**	**0.38**	< 0.2
Dichlorodifluoromethane (CFC 12)	**2.6**	**2.2**	**2.1**	**1.9**	**1.9**	**2.2**
Dichloromethane (Methylene Chloride)	**44**	**23**	**130**	**560 D**	**42**	**140**
d-Limonene	**5.6**	**1.1**	**41**	**120**	**6.2**	**7.4**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601737	P1601691	P1601737	P1601830	P1601830	P1601740
Location	Control	Control	Control	Control	Control	Control
Date Sampled	4/1/2016	3/30/2016	4/1/2016	4/5/2016	4/5/2016	4/1/2016
Ethanol	**250**	**72**	**370**	**880 D**	**270**	**280**
Ethyl Acetate	**11**	**3**	**34**	**9.8**	**12**	**5.4**
Ethylbenzene	**1.1**	< 0.96	**1.3**	**0.84**	**0.68 J**	**3.8**
Hexachlorobutadiene	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
Isopropylbenzene (Cumene)	< 0.93	< 0.96	**3.8**	< 0.62	< 1.1	**0.34 J**
mp-Xylenes	**3.5**	**1.3**	**3.5**	**2.2**	**1.9**	**13**
Methyl Methacrylate	< 1.9	< 1.9	< 2.2	< 1.2	< 2.3	< 2
Methyl tert-Butyl Ether	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
Naphthalene	**0.93**	< 0.96	**0.81 J**	**0.51 J**	< 1.1	**1.1**
n-Butyl Acetate	**1.7**	**1.8**	**7**	**2.2**	**1.6**	**1.2**
n-Heptane	**2.9**	< 0.96	**1.7**	**1.2**	**0.78 J**	**5.4**
n-Hexane	**6**	< 0.96	**1.7**	**1.5**	**1.4**	**14**
n-Nonane	**0.78 J**	< 0.96	**4**	**1.4**	**0.47 J**	**1.3**
n-Octane	**1.7**	< 0.96	**1.1**	**0.75**	< 1.1	**1.8**
n-Propylbenzene	< 0.93	< 0.96	**0.53 J**	< 0.62	< 1.1	**0.75 J**
o-Xylene	**1.2**	< 0.96	**1.4**	**0.84**	**0.84 J**	**4.9**
Propene	**4.2**	< 0.96	**10**	**9.2**	**14**	**2.8**
Styrene	**0.61 J**	< 0.96	**3.5**	**0.59 J**	**1.1 J**	**1.4**
Tetrachloroethene	**0.19**	**0.87**	**0.51**	**0.34**	**0.83**	**0.16 J**
Tetrahydrofuran (THF)	< 0.93	< 0.96	**27**	< 0.62	< 1.1	< 1
Toluene	**8.4**	**4**	**5.3**	**5.2**	**3.5**	**22**
trans-12-Dichloroethene	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2
trans-13-Dichloropropene	< 0.93	< 0.96	< 1.1	< 0.62	< 1.1	< 1
Trichloroethene (TCE)	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	**1.8**
Trichlorofluoromethane (CFC 11)	**1.2**	**1.2**	**1.4**	**1.1**	**1**	**1.7**
Vinyl Acetate	**6.5 J**	< 9.6	**5.8 J**	< 6.2	**5.7 J**	< 10
Vinyl Chloride	< 0.19	< 0.19	< 0.22	< 0.12	< 0.23	< 0.2

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter ($\mu g/m^3$)

Results file number	P1601844	P1601844	P1601844	P1601805	P1601805	P1601874
Location	Control	Ctrl Ext	Control	Control	Ctrl Ext	Control
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016	4/7/2016
111-Trichloroethane (TCA)	< 0.19	< 0.19	< 0.17	**0.53**	< 0.22	< 0.2
1122-Tetrachloroethane	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
112-Trichloroethane	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
112-Trichlorotrifluoroethane	**0.65**	**0.48**	**0.51**	**0.76**	**0.48**	**0.52**
11-Dichloroethane (11-DCA)	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
11-Dichloroethene (11-DCE)	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
124-Trichlorobenzene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
124-Trimethylbenzene	**0.64 J**	**0.66 J**	**0.79 J**	**0.65 J**	< 1.1	**0.74 J**
12-Dibromo 3-Chloropropane	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
12-Dibromoethane	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
12-Dichloro-1122-tetrafluoroethane (CFC 114)	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
12-Dichlorobenzene	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
12-Dichloroethane	< 0.19	< 0.19	**0.18**	**4.3**	< 0.22	**0.45**
12-Dichloropropane	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
135-Trimethylbenzene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
13-Butadiene	< 0.38	< 0.39	< 0.34	< 0.27	< 0.43	< 0.4
13-Dichlorobenzene	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
14-Dichlorobenzene	**0.29**	**0.16 J**	**0.15 J**	**4.9**	< 0.22	**0.45**
14-Dioxane	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
2-Butanone (MEK)	**3.5 J**	**1.8 J**	**3.3 J**	**2.6 J**	**1.8 J**	**5 J**
2-Hexanone	< 0.96	< 0.97	**0.37 J**	**0.26 J**	< 1.1	< 0.99
2-Propanol (Isopropyl Alcohol)	**4 J**	**2.6 J**	**9.1**	**3.4 J**	**1.5 J**	**210**
3-Chloro-1-propene(Allyl Chloride)	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
4-Ethyltoluene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
4-Methyl-2-pentanone	**0.85 J**	< 0.97	**0.59 J**	**0.54 J**	< 1.1	< 0.99
Acetone	**33**	**19**	**30**	**25**	**11**	**48**
Acetonitrile	**1**	**0.5 J**	**0.52 J**	**0.3 J**	< 1.1	**0.48 J**
Acrolein	**3.6 J**	**2.1 J**	**2.3 J**	**3.5**	**0.99 J**	**3.6 J**
Acrylonitrile	< 0.96	< 0.97	**0.78 J**	< 0.67	< 1.1	< 0.99
alpha-Pinene	**6.2**	**0.42 J**	**2**	**0.78**	< 1.1	**3.9**
Benzene	**0.92**	**0.77**	**1.1**	**0.99**	**0.58**	**1**
Benzyl Chloride	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
Bromodichloromethane	< 0.19	< 0.19	**0.19**	**0.13 J**	< 0.22	< 0.2
Bromoform	< 0.96	< 0.97	< 0.84	**0.28 J**	< 1.1	**3.1**
Bromomethane	< 0.38	< 0.39	< 0.34	< 0.27	< 0.43	< 0.4
Carbon Disulfide	**0.96 J**	**1.8 J**	< 8.4	**1.9 J**	**0.61 J**	**0.87 J**
Carbon Tetrachloride	**0.58**	**0.45**	**0.52**	**0.47**	**0.46**	**0.81**
Chlorobenzene	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
Chloroethane	< 0.38	< 0.39	< 0.34	< 0.27	< 0.43	< 0.4
Chloroform	**0.45**	**0.51**	**0.61**	**0.82**	**0.46**	**0.93**
Chloromethane	**0.65**	**0.58**	**0.59**	**0.66**	**0.52**	**0.6**
cis-12-Dichloroethene	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
cis-13-Dichloropropene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
Cyclohexane	< 1.9	**0.57 J**	< 1.7	< 1.3	< 2.2	< 2
Dibromochloromethane	< 0.19	< 0.19	**0.2**	**0.2**	< 0.22	< 0.2
Dichlorodifluoromethane (CFC 12)	**2.3**	**1.9**	**1.9**	**2.1**	**2.2**	**2**
Dichloromethane (Methylene Chloride)	**82**	**7.1**	**76**	**79**	**5.1**	**13**
d-Limonene	**12**	**0.48 J**	**11**	**13**	< 1.1	**25**

Table 4a: Air Samples, Volatile Organic Compounds (VOCs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601844	P1601844	P1601844	P1601805	P1601805	P1601874
Location	Control	Ctrl Ext	Control	Control	Ctrl Ext	Control
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016	4/7/2016
Ethanol	**54**	**17**	**350**	**350**	**13**	**760**
Ethyl Acetate	**4.2**	**15**	**20**	**4.6**	**1.5 J**	**63**
Ethylbenzene	**2.5**	**0.39 J**	**1.2**	**0.52 J**	< 1.1	**0.94 J**
Hexachlorobutadiene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
Isopropylbenzene (Cumene)	**11**	< 0.97	< 0.84	**16**	**1.8**	< 0.99
mp-Xylenes	**7.9**	**1.2**	**5.1**	**1.3**	**0.74 J**	**1.8**
Methyl Methacrylate	< 1.9	< 1.9	< 1.7	< 1.3	< 2.2	< 2
Methyl tert-Butyl Ether	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
Naphthalene	< 0.96	< 0.97	**1.3**	< 0.67	< 1.1	**0.38 J**
n-Butyl Acetate	**0.86 J**	**0.39 J**	**1.3**	**0.62 J**	< 1.1	**3**
n-Heptane	**0.65 J**	**0.45 J**	**0.7 J**	**0.32 J**	< 1.1	**1.3**
n-Hexane	**1.6**	**0.77 J**	**0.89**	**0.46 J**	**0.42 J**	**1.3 B**
n-Nonane	**0.5 J**	< 0.97	**5.9**	**0.23 J**	< 1.1	**0.43 J**
n-Octane	< 0.96	< 0.97	**0.56 J**	**0.25 J**	< 1.1	**0.58 J**
n-Propylbenzene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
o-Xylene	**2.2**	**1.8**	**2.5**	**1.7**	< 1.1	**0.67 J**
Propene	**2.3**	**1.3**	**4.7**	**2.5**	**1.5**	**68**
Styrene	**0.47 J**	**0.39 J**	**0.57 J**	**1.4**	< 1.1	**0.67 J**
Tetrachloroethene	**0.15 J**	< 0.19	**0.53**	**1.2**	< 0.22	**0.73**
Tetrahydrofuran (THF)	**1.3**	< 0.97	< 0.84	**0.45 J**	< 1.1	< 0.99
Toluene	**9.9**	**3.8**	**5.3**	**3.1**	**1.1**	**4.3**
trans-12-Dichloroethene	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
trans-13-Dichloropropene	< 0.96	< 0.97	< 0.84	< 0.67	< 1.1	< 0.99
Trichloroethene (TCE)	**0.27**	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2
Trichlorofluoromethane (CFC 11)	**1.3**	**1**	**1.2**	**1.3**	**1.1**	**1.1**
Vinyl Acetate	**3.7 J**	**2.7 J**	**2.6 J**	**3.7 J**	**2.2 J**	**7.3 J**
Vinyl Chloride	< 0.19	< 0.19	< 0.17	< 0.13	< 0.22	< 0.2

Notes:

J: Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

B: Analyte detected in both the sample and associated method blank.

D: The reported result is from a dilution

Res: Residence

Ctrl: Control

Ext: Exterior (outdoors)

Dup: Duplicate sample

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601832	P1601717	P1601737	P1601806	P1601716	P1601740	P1601716
Location	Residence	Residence	Residence	Res Dup	Residence	Residence	Residence
Date Sampled	4/5/2016	3/31/2016	4/1/2016	4/4/2016	3/31/2016	4/1/2016	3/31/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)							
1,1-Difluoroethane				**36**			
1-Butanol		**300**			**100**		
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene							
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol							
2-Methylbutane							
2-Methylpentane							
2-Methylpropane		**21**		**830**			
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol			**7.2**			**43**	
3-Carene					**3**		
3-Methylhexane							
3-Methylpentane							
4-Isopropyltoluene							
a-Methylstyrene						**4.6**	
Acetaldehyde							
Acetophenone			**4.2**			**11**	
Acetic Acid						**4.1**	
Benzaldehyde					**12**		
Butanoic Acid							
Butyraldehyde					**7.1**		
Caprylic Aldehyde							**13**
Chlorodifluoromethane (CFC 22)							
Cyclohexanone							
Cyclopentane							
Decamethylcyclopentasiloxane							
Diisopropyldisulfide							
Dimethyl Disulfide						**11**	
Dimethyl Ether							
Dimethylsilanediol						**3.9**	
Hexamethylcyclotrisiloxane	**47**					**21**	
Isoprene							
Isothiocyanatocyclohexane			**8.7**				
Methanol	**15**		**6.3**		**18**	**4.4**	**12**
Methyl Acetate							
Methylcyclobutane							
Methylcyclopentane							
n-Butane		**17**		**330**		**8.4**	
n-Decane							**8.6**
n-Heptaldehyde							**6.7**
n-Hexaldehyde							**28**
n-Nonaldehyde			**4.1**			**6.2**	
n-Pentadecane							
n-Pentane							
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601832	P1601717	P1601737	P1601806	P1601716	P1601740	P1601716
Location	Residence	Residence	Residence	Res Dup	Residence	Residence	Residence
Date Sampled	4/5/2016	3/31/2016	4/1/2016	4/4/2016	3/31/2016	4/1/2016	3/31/2016
n-Undecane							
N,N,2-Trimethylbenzenamine							
o-Cymene					**3.6**		
Octamethylcyclotetrasiloxane							
Propane				**110**			
Propylene Glycol						**5.2**	
sec-Butyl Disulfide							
Sulfur Dioxide			**>50 !**			**>48 !**	
Tetradecane							
Trimethylsilanol							
Unidentified Siloxane				**100**			
Unidentified Siloxane							
Unidentified Siloxane							
Unknown			**5.4**		**3.5**	**11**	**5.1**
Unknown						**6.4**	
Unknown							
Unknown Hydrocarbon					**4.1**		
Unknown Hydrocarbon					**3.1**		
Unknown Hydrocarbon					**13**		
Unknown Hydrocarbon					**11**		
Unknown Hydrocarbon					**7.6**		
Unknown Hydrocarbon					**9.7**		
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Notes: Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying sulfur dioxide. The TIC result for this compound is reported as greater than since the numberic value is probably biased low.

TICs do not have method detection limits. Blank cells indicate analyte not detected.

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601804	P1601873	P1601873	P1601831	P1601873	P1601875	P1601689
Location	Residence	Residence	Res Dup	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/6/2016	4/5/2016	4/6/2016	4/7/2016	3/30/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)							
1,1-Difluoroethane	**62**	**330**	**210**				
1-Butanol							
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane				**22**			
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene							
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol							
2-Methylbutane							
2-Methylpentane							
2-Methylpropane	**27**			**92**	**38**		**120**
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol						**410**	
3-Carene							
3-Methylhexane							
3-Methylpentane							
4-Isopropyltoluene							
a-Methylstyrene						**160**	
Acetaldehyde							
Acetophenone						**110**	
Acetic Acid							
Benzaldehyde							
Butanoic Acid							
Butyraldehyde							
Caprylic Aldehyde							
Chlorodifluoromethane (CFC 22)							
Cyclohexanone							
Cyclopentane							
Decamethylcyclopentasiloxane							
Diisopropyldisulfide							
Dimethyl Disulfide							
Dimethyl Ether				**150**			
Dimethylsilanediol							
Hexamethylcyclotrisiloxane							
Isoprene							
Isothiocyanatocyclohexane							
Methanol				**26**			
Methyl Acetate							
Methylcyclobutane							
Methylcyclopentane							
n-Butane		**350**	**350**	**75**			
n-Decane							
n-Heptaldehyde							
n-Hexaldehyde							
n-Nonaldehyde							
n-Pentadecane							
n-Pentane							
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601804	P1601873	P1601873	P1601831	P1601873	P1601875	P1601689
Location	Residence	Residence	Res Dup	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/6/2016	4/5/2016	4/6/2016	4/7/2016	3/30/2016
n-Undecane							
N,N,2-Trimethylbenzenamine							
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane		**75**		**56**			
Propylene Glycol							
sec-Butyl Disulfide							
Sulfur Dioxide						**>43 !**	
Tetradecane							
Trimethylsilanol							
Unidentified Siloxane		**26**	**54**				
Unidentified Siloxane							
Unidentified Siloxane							
Unknown				**46**			
Unknown							
Unknown							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601688	P1601688	P1601688	P1601690	P1601873	P1601872	P1601737
Location	Residence	Res Dup	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/31/2016	4/6/2016	4/8/2016	4/1/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)							
1,1-Difluoroethane	**100**	**100**					
1-Butanol	**27**						
1-Butoxy-2-propanol				**3**			
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene							**4.2**
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol							
2-Methylbutane							
2-Methylpentane							
2-Methylpropane			**17**		**36**		**4.6**
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol							**25**
3-Carene							
3-Methylhexane							
3-Methylpentane							
4-Isopropyltoluene							
a-Methylstyrene							**5.5**
Acetaldehyde							
Acetophenone							**10**
Acetic Acid				**3.6**			
Benzaldehyde							
Butanoic Acid							
Butyraldehyde							
Caprylic Aldehyde							
Chlorodifluoromethane (CFC 22)							
Cyclohexanone							
Cyclopentane							
Decamethylcyclopentasiloxane							
Diisopropyldisulfide							
Dimethyl Disulfide							**7.6**
Dimethyl Ether							
Dimethylsilanediol							
Hexamethylcyclotrisiloxane							**10**
Isoprene				**3.5**			
Isothiocyanatocyclohexane							
Methanol				**18**			**11**
Methyl Acetate							
Methylcyclobutane				**5.6**			
Methylcyclopentane							
n-Butane				**20**	**61**		
n-Decane							
n-Heptaldehyde							
n-Hexaldehyde							
n-Nonaldehyde				**3.6**			**5.5**
n-Pentadecane							
n-Pentane							
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601688	P1601688	P1601688	P1601690	P1601873	P1601872	P1601737
Location	Residence	Res Dup	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/31/2016	4/6/2016	4/8/2016	4/1/2016
n-Undecane							
N,N,2-Trimethylbenzenamine							
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane							
Propylene Glycol							
sec-Butyl Disulfide							
Sulfur Dioxide						**>140 !**	**>76 !**
Tetradecane							
Trimethylsilanol							
Unidentified Siloxane			**17**				
Unidentified Siloxane							
Unidentified Siloxane							
Unknown				**24**			**15**
Unknown				**73**			
Unknown				**5.5**			
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601806	P1601716	P1601872	P1601804	P1601830	P1601717	P1601740
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/8/2016	4/4/2016	4/5/2016	3/31/2016	4/1/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)							
1,1-Difluoroethane				**300**			**2100**
1-Butanol		**48**					
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene							
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol		**3.3**					**3**
2-Methylbutane			**30**				
2-Methylpentane			**16**				
2-Methylpropane	**120**	**45**		**57**		**17**	
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol							
3-Carene							
3-Methylhexane							
3-Methylpentane							
4-Isopropyltoluene							
a-Methylstyrene							
Acetaldehyde							**4.1**
Acetophenone							
Acetic Acid		**8.9**					
Benzaldehyde							
Butanoic Acid							
Butyraldehyde							
Caprylic Aldehyde							
Chlorodifluoromethane (CFC 22)							
Cyclohexanone							
Cyclopentane							
Decamethylcyclopentasiloxane							
Diisopropyldisulfide							
Dimethyl Disulfide				**41**			
Dimethyl Ether							
Dimethylsilanediol							
Hexamethylcyclotrisiloxane							**13**
Isoprene							**3.6**
Isothiocyanatocyclohexane							
Methanol		**26**					**12**
Methyl Acetate							
Methylcyclobutane							
Methylcyclopentane							
n-Butane				**770**	**530**	**25**	**3.5**
n-Decane							
n-Heptaldehyde							
n-Hexaldehyde							
n-Nonaldehyde							**3**
n-Pentadecane							
n-Pentane			**14**				
n-Tetradecane							
n-Tridecane				**61**			

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601806	P1601716	P1601872	P1601804	P1601830	P1601717	P1601740
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/8/2016	4/4/2016	4/5/2016	3/31/2016	4/1/2016
n-Undecane							
N,N,2-Trimethylbenzenamine							
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane				**220**			
Propylene Glycol							
sec-Butyl Disulfide							
Sulfur Dioxide							
Tetradecane							
Trimethylsilanol							
Unidentified Siloxane				**91**			
Unidentified Siloxane							
Unidentified Siloxane							
Unknown		**3.5**					**2.5**
Unknown							
Unknown							
Unknown Hydrocarbon				**43**			
Unknown Hydrocarbon				**52**			
Unknown Hydrocarbon				**61**			
Unknown Hydrocarbon				**54**			
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601832	P1601844	P1601844	P1601806	P1601875	P1601830	P1601873
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/8/2016	4/6/2016	4/6/2016	4/4/2016	4/6/2016	4/5/2016	4/6/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)	**27**						
1,1-Difluoroethane							
1-Butanol							
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene		**9.5**					
2-(Isopropyldisulfanyl)butane		**49**					
2-Ethyl-1-hexanol							
2-Methylbutane							
2-Methylpentane							
2-Methylpropane	**96**		**37**	**120**		**40**	**94**
2-Methylpropanoic Acid		**560**					
2-Phenyl-2-Propanol		**110**		**380**			
3-Carene							
3-Methylhexane							
3-Methylpentane							
4-Isopropyltoluene							
a-Methylstyrene							
Acetaldehyde		**23**					
Acetophenone				**130**			
Acetic Acid							
Benzaldehyde							
Butanoic Acid		**22**					
Butyraldehyde		**25**					
Caprylic Aldehyde							
Chlorodifluoromethane (CFC 22)	**890**						
Cyclohexanone							
Cyclopentane							
Decamethylcyclopentasiloxane			**28**				
Diisopropyldisulfide		**24**					
Dimethyl Disulfide							
Dimethyl Ether							
Dimethylsilanediol							
Hexamethylcyclotrisiloxane			**36**				
Isoprene							
Isothiocyanatocyclohexane							
Methanol		**29**					
Methyl Acetate							
Methylcyclobutane							
Methylcyclopentane							
n-Butane	**46**					**39**	
n-Decane							
n-Heptaldehyde							
n-Hexaldehyde							
n-Nonaldehyde							
n-Pentadecane							
n-Pentane							
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601832	P1601844	P1601844	P1601806	P1601875	P1601830	P1601873
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/8/2016	4/6/2016	4/6/2016	4/4/2016	4/6/2016	4/5/2016	4/6/2016
n-Undecane							
N,N,2-Trimethylbenzenamine				**46**			
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane							
Propylene Glycol							
sec-Butyl Disulfide		**24**					
Sulfur Dioxide					**>89 !**		
Tetradecane							
Trimethylsilanol							
Unidentified Siloxane	**120**					**46**	
Unidentified Siloxane							
Unidentified Siloxane							
Unknown		**26**					
Unknown							
Unknown							
Unknown Hydrocarbon						**62**	
Unknown Hydrocarbon						**110**	
Unknown Hydrocarbon						**85**	
Unknown Hydrocarbon						**72**	
Unknown Hydrocarbon						**55**	
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601832	P1601833	P1601833	P1601737	P1601833	P1601719	P1601831
Location	Residence	Res Dup	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/5/2016	4/5/2016	4/1/2016	4/5/2016	3/31/2016	4/5/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)							
1,1-Difluoroethane	**96**						
1-Butanol							
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene							
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol							
2-Methylbutane							
2-Methylpentane							
2-Methylpropane		**18**	**14**				**22**
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol				**59**			**57**
3-Carene							
3-Methylhexane							
3-Methylpentane							
4-Isopropyltoluene						**6**	
a-Methylstyrene				**3.8**			
Acetaldehyde	**15**			**3.9**			
Acetophenone				**6.7**			
Acetic Acid						**5.8**	
Benzaldehyde							
Butanoic Acid							
Butyraldehyde							
Caprylic Aldehyde						**6.6**	
Chlorodifluoromethane (CFC 22)							
Cyclohexanone							
Cyclopentane							
Decamethylcyclopentasiloxane							
Diisopropyldisulfide							
Dimethyl Disulfide							
Dimethyl Ether							
Dimethylsilanediol				**3.3**			
Hexamethylcyclotrisiloxane				**30**		**32**	
Isoprene							
Isothiocyanatocyclohexane							
Methanol	**20**			**14**		**11**	**18**
Methyl Acetate							
Methylcyclobutane							
Methylcyclopentane							
n-Butane				**4.8**		**7**	**17**
n-Decane							
n-Heptaldehyde							
n-Hexaldehyde				**3.3**			
n-Nonaldehyde				**6.6**			
n-Pentadecane							
n-Pentane							
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601832	P1601833	P1601833	P1601737	P1601833	P1601719	P1601831
Location	Residence	Res Dup	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/5/2016	4/5/2016	4/1/2016	4/5/2016	3/31/2016	4/5/2016
n-Undecane							
N,N,2-Trimethylbenzenamine							
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane							
Propylene Glycol				**3.7**			
sec-Butyl Disulfide							
Sulfur Dioxide		**99**		**>78 !**			
Tetradecane					**18**		
Trimethylsilanol							
Unidentified Siloxane		**30**			**38**		
Unidentified Siloxane							
Unidentified Siloxane							
Unknown				**7.6**		**4.4**	
Unknown				**4.7**		**29**	
Unknown							
Unknown Hydrocarbon						**5**	
Unknown Hydrocarbon						**6.8**	
Unknown Hydrocarbon						**5.4**	
Unknown Hydrocarbon						**20**	
Unknown Hydrocarbon						**21**	
Unknown Hydrocarbon						**20**	
Unknown Hydrocarbon						**5.8**	
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601844	P1601844	P1601872	P1601875	P1601875	P1601737	P1601691
Location	Residence	Res Dup	Residence	School	School	Control	Control
Date Sampled	4/6/2016	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/1/2016	3/30/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)			**54**				
1,1-Difluoroethane							
1-Butanol			**86**				
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane							
2,3-Dimethylbutane							
2,4,4-Trimethyl-1-Pentene							
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol						**3.9**	
2-Methylbutane							
2-Methylpentane							
2-Methylpropane		**270**					**130**
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol	**350**	**140**				**15**	
3-Carene	**32**	**31**					
3-Methylhexane						**4.1**	
3-Methylpentane						**13**	
4-Isopropyltoluene							
a-Methylstyrene							
Acetaldehyde							
Acetophenone	**61**					**5**	
Acetic Acid							
Benzaldehyde							
Butanoic Acid							
Butyraldehyde							
Caprylic Aldehyde							
Chlorodifluoromethane (CFC 22)						**65**	
Cyclohexanone							
Cyclopentane						**8.5**	
Decamethylcyclopentasiloxane	**44**	**42**					
Diisopropyldisulfide							
Dimethyl Disulfide	**29**						
Dimethyl Ether							
Dimethylsilanediol							
Hexamethylcyclotrisiloxane				**57**		**22**	
Isoprene						**3.7**	
Isothiocyanatocyclohexane							
Methanol	**38**	**37**				**24**	**5.3**
Methyl Acetate							
Methylcyclobutane							
Methylcyclopentane							
n-Butane						**13**	**6.6**
n-Decane							
n-Heptaldehyde							
n-Hexaldehyde							
n-Nonaldehyde						**7**	
n-Pentadecane							
n-Pentane						**17**	
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601844	P1601844	P1601872	P1601875	P1601875	P1601737	P1601691
Location	Residence	Res Dup	Residence	School	School	Control	Control
Date Sampled	4/6/2016	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/1/2016	3/30/2016
n-Undecane							
N,N,2-Trimethylbenzenamine							
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane							**34**
Propylene Glycol							
sec-Butyl Disulfide							
Sulfur Dioxide				**>22 !**			
Tetradecane							
Trimethylsilanol				**43**	**47**		**11**
Unidentified Siloxane			**33**	**52**			
Unidentified Siloxane				**34**			
Unidentified Siloxane				**51**			
Unknown			**29**			**6.2**	
Unknown						**5**	
Unknown							
Unknown Hydrocarbon			**180**				
Unknown Hydrocarbon			**22**				
Unknown Hydrocarbon			**63**				
Unknown Hydrocarbon			**50**				
Unknown Hydrocarbon			**22**				
Unknown Hydrocarbon			**23**				
Unknown Hydrocarbon			**80**				
Unknown Hydrocarbon			**30**				
Unknown Hydrocarbon			**130**				
Unknown Hydrocarbon			**84**				
Unknown Hydrocarbon			**69**				
Unknown Hydrocarbon			**50**				

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601737	P1601830	P1601740	P1601844	P1601844	P1601844	P1601805
Location	Control	Control	Contorl	Control	Ctrl Ext	Control	Control
Date Sampled	4/1/2016	4/5/2016	4/1/2016	4/6/2016	4/6/2016	4/6/2016	4/4/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)							
1,1-Difluoroethane							**77**
1-Butanol						**88**	
1-Butoxy-2-propanol							
1-Methyl-3-(1-Methylethyl)Benzene							**5.5**
2,2,4,6,6-Pentamethylheptane							
2,2,5-Trimethylhexane						**20**	
2,3-Dimethylbutane			**25**				
2,4,4-Trimethyl-1-Pentene							
2-(Isopropyldisulfanyl)butane							
2-Ethyl-1-hexanol							**4.3**
2-Methylbutane							
2-Methylpentane			**44**				
2-Methylpropane	**16**		**47**	**30**		**19**	
2-Methylpropanoic Acid							
2-Phenyl-2-Propanol	**15**		**120**	**94**			**100**
3-Carene							
3-Methylhexane							
3-Methylpentane			**31**				
4-Isopropyltoluene	**9.9**						
a-Methylstyrene	**39**			**100**			**9.8**
Acetaldehyde							
Acetophenone	**12**			**49**			**20**
Acetic Acid							
Benzaldehyde							
Butanoic Acid							
Butyraldehyde							
Caprylic Aldehyde							
Chlorodifluoromethane (CFC 22)							
Cyclohexanone	**15**						
Cyclopentane							
Decamethylcyclopentasiloxane				**87**			
Diisopropyldisulfide							
Dimethyl Disulfide	**15**						**6.2**
Dimethyl Ether							
Dimethylsilanediol	**21**						**6.8**
Hexamethylcyclotrisiloxane							**6**
Isoprene							**4.4**
Isothiocyanatocyclohexane							
Methanol	**36**			**23**		**19**	**13**
Methyl Acetate				**330**			
Methylcyclobutane							
Methylcyclopentane			**24**				
n-Butane	**92**		**85**				**7.9**
n-Decane	**10**					**18**	
n-Heptaldehyde							
n-Hexaldehyde							
n-Nonaldehyde	**13**						**12**
n-Pentadecane							
n-Pentane			**58**				
n-Tetradecane							
n-Tridecane							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601737	P1601830	P1601740	P1601844	P1601844	P1601844	P1601805
Location	Control	Control	Contorl	Control	Ctrl Ext	Control	Control
Date Sampled	4/1/2016	4/5/2016	4/1/2016	4/6/2016	4/6/2016	4/6/2016	4/4/2016
n-Undecane	**12**						
N,N,2-Trimethylbenzenamine							
o-Cymene							
Octamethylcyclotetrasiloxane							
Propane							
Propylene Glycol							
sec-Butyl Disulfide							
Sulfur Dioxide					**>52 !**		
Tetradecane							
Trimethylsilanol	**11**						
Unidentified Siloxane		**48**					
Unidentified Siloxane							
Unidentified Siloxane							
Unknown			**92**				**5.6**
Unknown	**65**						**40**
Unknown							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon			**34**				
Unknown Hydrocarbon			**32**				
Unknown Hydrocarbon			**25**				
Unknown Hydrocarbon			**76**				
Unknown Hydrocarbon			**57**				
Unknown Hydrocarbon			**24**				
Unknown Hydrocarbon							
Unknown Hydrocarbon							
Unknown Hydrocarbon							

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601805	P1601874
Location	Ctrl Ext	Control
Date Sampled	4/4/2016	4/7/2016
1,1,1,2-Tetrafluoroethane (HFC 134a)		
1,1-Difluoroethane		
1-Butanol		**34**
1-Butoxy-2-propanol		
1-Methyl-3-(1-Methylethyl)Benzene		
2,2,4,6,6-Pentamethylheptane		
2,2,5-Trimethylhexane		
2,3-Dimethylbutane		
2,4,4-Trimethyl-1-Pentene		
2-(Isopropyldisulfanyl)butane		
2-Ethyl-1-hexanol		
2-Methylbutane		
2-Methylpentane		
2-Methylpropane		**220**
2-Methylpropanoic Acid		
2-Phenyl-2-Propanol	**360**	
3-Carene		
3-Methylhexane		
3-Methylpentane		
4-Isopropyltoluene		
a-Methylstyrene	**22**	
Acetaldehyde		
Acetophenone	**69**	
Acetic Acid		
Benzaldehyde		
Butanoic Acid		
Butyraldehyde		
Caprylic Aldehyde		
Chlorodifluoromethane (CFC 22)		
Cyclohexanone		
Cyclopentane		
Decamethylcyclopentasiloxane		**110**
Diisopropyldisulfide		
Dimethyl Disulfide		
Dimethyl Ether		
Dimethylsilanediol		
Hexamethylcyclotrisiloxane	**30**	
Isoprene		
Isothiocyanatocyclohexane		
Methanol		**23**
Methyl Acetate		
Methylcyclobutane		
Methylcyclopentane		
n-Butane		
n-Decane		
n-Heptaldehyde		
n-Hexaldehyde		
n-Nonaldehyde		
n-Pentadecane		**23**
n-Pentane		
n-Tetradecane		**95**
n-Tridecane		

Table 4b: Air Samples, VOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-15; Units: micrograms per cubic meter (µg/m3)

Results file number	P1601805	P1601874
Location	Ctrl Ext	Control
Date Sampled	4/4/2016	4/7/2016
n-Undecane		
N,N,2-Trimethylbenzenamine	**20**	
o-Cymene		
Octamethylcyclotetrasiloxane		**69**
Propane		**120**
Propylene Glycol	**9.8**	
sec-Butyl Disulfide		
Sulfur Dioxide		
Tetradecane		
Trimethylsilanol		
Unidentified Siloxane		
Unidentified Siloxane		
Unidentified Siloxane		
Unknown		
Unknown		
Unknown		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		
Unknown Hydrocarbon		

Notes: See Page 2 of 18

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604124	1604018	1604101	1604101	1604100
Location	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016
1,2,4-Trichlorobenzene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
1,2-Dichlorobenzene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
1,3-Dichlorobenzene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
1,4-Dichlorobenzene	< 0.14	**960**	**0.16**	**0.16**	< 0.15
2,4,5-Trichlorophenol	< 1.4	< 73	< 1.4	< 1.4	< 1.5
2,4,6-Trichlorophenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2,4-Dichlorophenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2,4-Dimethylphenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2,4-Dinitrophenol	< 5.7	< 290	< 5.7	< 5.7	< 5.9
2,4-Dinitrotoluene	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2,6-Dinitrotoluene	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2-Chloronaphthalene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
2-Chlorophenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2-Methylnaphthalene	< 0.14	< 7.3	**0.093 J**	**0.085 J**	< 0.15
2-Methylphenol (o-Cresol)	< 0.71	< 36	< 0.71	< 0.71	< 0.74
2-Nitroaniline	< 1.4	< 73	< 1.4	< 1.4	< 1.5
2-Nitrophenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
3,3'-Dichlorobenzidine	< 2.8	< 140	< 2.8	< 2.8	< 2.9
3-Nitroaniline	< 1.4	< 73	< 1.4	< 1.4	< 1.5
4,6-Dinitro-2-methylphenol	< 1.4	< 73	< 1.4	< 1.4	< 1.5
4-Bromophenyl-phenyl Ether	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
4-Chloro-3-methylphenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
4-Chloroaniline	< 1.4	< 73	< 1.4	< 1.4	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.71	< 36	< 0.71	< 0.71	< 0.74
4-Nitroaniline	< 1.4	< 73	< 1.4	< 1.4	< 1.5
4-Nitrophenol	< 5.7	< 290	< 5.7	< 5.7	< 5.9
Acenaphthene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Acenaphthylene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Anthracene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Benzo(a)anthracene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Benzo(a)pyrene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Benzo(b)fluoranthene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Benzo(g,h,i)perylene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Benzo(k)fluoranthene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Benzoic Acid	< 4.3	< 220	< 4.3	< 4.3	< 4.4
bis(2-Chloroethoxy) Methane	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
bis(2-Chloroethyl) Ether	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604124	1604018	1604101	1604101	1604100
Location	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016
bis(2-Ethylhexyl)phthalate	< 0.71	< 36	< 0.71	< 0.71	< 0.74
Butylbenzylphthalate	< 0.71	< 36	< 0.71	< 0.71	< 0.74
Chrysene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Dibenz(a,h)anthracene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Dibenzofuran	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Diethylphthalate	< 0.71	< 36	< 0.71	< 0.71	< 0.74
Dimethylphthalate	< 0.71	< 36	< 0.71	< 0.71	**0.19 J**
di-n-Butylphthalate	**0.29 J**	< 36	**0.27 J**	**0.27 J**	**0.11 J**
Di-n-Octylphthalate	< 0.71	< 36	< 0.71	< 0.71	< 0.74
Fluoranthene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Fluorene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Hexachlorobenzene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Hexachlorobutadiene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Hexachlorocyclopentadiene	< 2.8	< 140	< 2.8	< 2.8	< 2.9
Hexachloroethane	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
Isophorone	< 0.14	< 7.3	**0.16**	**0.16**	< 0.15
Naphthalene	**0.11 J**	< 7.3	**0.26**	**0.25**	**0.044 J**
Nitrobenzene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
N-Nitroso-di-n-propylamine	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15
N-Nitrosodiphenylamine	< 1.4	< 73	< 1.4	< 1.4	< 1.5
Pentachlorophenol	< 11	< 580	< 11	< 11	< 12
Phenanthrene	**0.017 J**	< 7.3	**0.013 J**	**0.014 J**	< 0.15
Phenol	**1.9**	< 36	**1.2**	**1.2**	**0.43 J**
Pyrene	< 0.14	< 7.3	< 0.14	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604101	1604101	1604002	1604071	1604002	1604071
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/4/2016	3/30/2016	4/1/2016	3/30/2016	4/1/2016
1,2,4-Trichlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
1,2-Dichlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
1,3-Dichlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
1,4-Dichlorobenzene	**0.078 J**	< 0.15	< 0.15	**0.080 J**	< 0.15	**0.72**
2,4,5-Trichlorophenol	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
2,4,6-Trichlorophenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2,4-Dichlorophenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2,4-Dimethylphenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2,4-Dinitrophenol	< 5.7	< 5.9	< 5.9	< 5.7	< 5.9	< 5.7
2,4-Dinitrotoluene	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2,6-Dinitrotoluene	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2-Chloronaphthalene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
2-Chlorophenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2-Methylnaphthalene	< 0.14	**0.066 J**	< 0.15	< 0.14	< 0.15	< 0.14
2-Methylphenol (o-Cresol)	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
2-Nitroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
2-Nitrophenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
3,3'-Dichlorobenzidine	< 2.8	< 3.0	< 3.0	< 2.8	< 2.9	< 2.8
3-Nitroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4,6-Dinitro-2-methylphenol	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4-Bromophenyl-phenyl Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
4-Chloro-3-methylphenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
4-Chloroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
4-Nitroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4-Nitrophenol	< 5.7	< 5.9	< 5.9	< 5.7	< 5.9	< 5.7
Acenaphthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	**0.026 J**
Acenaphthylene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Anthracene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(a)anthracene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(a)pyrene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(b)fluoranthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(g,h,i)perylene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(k)fluoranthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzoic Acid	< 4.3	< 4.4	< 4.4	< 4.3	< 4.4	< 4.3
bis(2-Chloroethoxy) Methane	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
bis(2-Chloroethyl) Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604101	1604101	1604002	1604071	1604002	1604071
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/4/2016	3/30/2016	4/1/2016	3/30/2016	4/1/2016
bis(2-Ethylhexyl)phthalate	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
Butylbenzylphthalate	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
Chrysene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Dibenz(a,h)anthracene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Dibenzofuran	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Diethylphthalate	< 0.71	< 0.74	**0.12 J**	< 0.71	**0.13 J**	< 0.71
Dimethylphthalate	< 0.71	**0.12 J**	< 0.74	< 0.71	< 0.74	< 0.71
di-n-Butylphthalate	**0.27 J**	**0.22 J**	**0.094 J**	**0.36 J**	**0.13 J**	**0.27 J**
Di-n-Octylphthalate	< 0.71	< 0.74	< 0.74	< 0.71	< 0.74	< 0.71
Fluoranthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Fluorene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorobutadiene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorocyclopentadiene	< 2.8	< 3.0	< 3.0	< 2.8	< 2.9	< 2.8
Hexachloroethane	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Isophorone	< 0.14	< 0.15	< 0.15	< 0.14	**0.10 J**	**0.12 J**
Naphthalene	**0.30**	**0.61**	**0.041 J**	**0.046 J**	**0.072 J**	**0.077 J**
Nitrobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
N-Nitroso-di-n-propylamine	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
N-Nitrosodiphenylamine	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
Pentachlorophenol	< 11	< 12	< 12	< 11	< 12	< 11
Phenanthrene	**0.015 J**	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Phenol	**2.0**	**1.5**	< 0.74	**0.52 J**	< 0.74	**0.62 J**
Pyrene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604071	1604071	1604100-	1604100-	1604019	1604019
Location	Res-Dup	Residence	Residence	Res-Dup	Residence	Res-Ext
Date Sampled	4/1/2016	4/1/2016	4/4/2016	4/4/2016	3/31/2016	3/31/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,4-Dichlorobenzene	**0.66**	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
2,4,6-Trichlorophenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2,4-Dichlorophenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2,4-Dimethylphenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2,4-Dinitrophenol	< 6.0	< 5.9	< 6.0	< 5.8	< 5.9	< 6.0
2,4-Dinitrotoluene	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2,6-Dinitrotoluene	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2-Chloronaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
2-Chlorophenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2-Methylnaphthalene	< 0.15	**0.11 J**	< 0.15	< 0.14	**0.070 J**	< 0.15
2-Methylphenol (o-Cresol)	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
2-Nitroaniline	< 1.5	< 1.5	< 1.5	**0.21 J**	< 1.5	< 1.5
2-Nitrophenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
3,3'-Dichlorobenzidine	< 3.0	< 2.9	< 3.0	< 2.9	< 2.9	< 3.0
3-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
4-Chloro-3-methylphenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
4-Chloroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
4-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Nitrophenol	< 6.0	< 5.9	< 6.0	< 5.8	< 5.9	< 6.0
Acenaphthene	< 0.15	< 0.15	< 0.15	< 0.14	**0.051 J**	< 0.15
Acenaphthylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(a)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(a)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzoic Acid	< 4.5	< 4.4	< 4.5	< 4.3	< 4.4	< 4.5
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604071	1604071	1604100-	1604100-	1604019	1604019
Location	Res-Dup	Residence	Residence	Res-Dup	Residence	Res-Ext
Date Sampled	4/1/2016	4/1/2016	4/4/2016	4/4/2016	3/31/2016	3/31/2016
bis(2-Ethylhexyl)phthalate	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
Butylbenzylphthalate	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
Chrysene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Dibenzofuran	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Diethylphthalate	< 0.75	< 0.74	< 0.74	< 0.72	**0.18 J**	< 0.75
Dimethylphthalate	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
di-n-Butylphthalate	**0.26 J**	**0.22 J**	**0.33 J**	**0.36 J**	**0.15 J**	< 0.75
Di-n-Octylphthalate	< 0.75	< 0.74	< 0.74	< 0.72	< 0.74	< 0.75
Fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Fluorene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorobutadiene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorocyclopentadiene	< 3.0	< 2.9	< 3.0	< 2.9	< 2.9	< 3.0
Hexachloroethane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Isophorone	**0.12 J**	< 0.15	**0.14 J**	**0.14 J**	< 0.15	< 0.15
Naphthalene	**0.078 J**	**0.38**	**0.10 J**	**0.10 J**	**0.18**	**0.029 J**
Nitrobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 12	< 12	< 12
Phenanthrene	< 0.15	< 0.15	**0.018 J**	**0.017 J**	**0.022 J**	< 0.15
Phenol	**0.57 J**	**0.42 J**	**1.8**	**1.7**	< 0.74	< 0.75
Pyrene	< 0.15	< 0.15	< 0.15	< 0.14	**0.044 J**	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604018	1604072	1604018	1604101	1604153	1604153
Location	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	3/31/2016	4/1/2016	3/31/2016	4/4/2016	4/6/2016	4/6/2016
1,2,4-Trichlorobenzene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
1,2-Dichlorobenzene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
1,3-Dichlorobenzene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
1,4-Dichlorobenzene	**0.18**	**1.4**	**0.22**	< 0.14	< 0.14	< 0.14
2,4,5-Trichlorophenol	< 1.4	< 0.73	< 1.5	< 1.4	< 1.4	< 1.4
2,4,6-Trichlorophenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2,4-Dichlorophenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2,4-Dimethylphenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2,4-Dinitrophenol	< 5.8	< 2.9	< 5.9	< 5.7	< 5.7	< 5.7
2,4-Dinitrotoluene	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2,6-Dinitrotoluene	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2-Chloronaphthalene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
2-Chlorophenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2-Methylnaphthalene	< 0.14	< 0.14	< 0.15	**0.10 J**	**0.15**	**0.19**
2-Methylphenol (o-Cresol)	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
2-Nitroaniline	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
2-Nitrophenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 2.9	< 2.8	< 2.9	< 2.9
3-Nitroaniline	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
4-Bromophenyl-phenyl Ether	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
4-Chloro-3-methylphenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
4-Chloroaniline	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
4-Nitroaniline	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
4-Nitrophenol	< 5.8	< 2.9	< 5.9	< 5.7	< 5.7	< 5.7
Acenaphthene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	**0.032 J**
Acenaphthylene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Anthracene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(a)anthracene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(a)pyrene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(b)fluoranthene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(g,h,i)perylene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(k)fluoranthene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Benzoic Acid	< 4.4	< 4.4	< 4.4	< 4.2	< 4.3	< 4.3
bis(2-Chloroethoxy) Methane	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
bis(2-Chloroethyl) Ether	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604018	1604072	1604018	1604101	1604153	1604153
Location	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	3/31/2016	4/1/2016	3/31/2016	4/4/2016	4/6/2016	4/6/2016
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
Butylbenzylphthalate	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
Chrysene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Dibenz(a,h)anthracene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Dibenzofuran	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	**0.032 J**
Diethylphthalate	< 0.73	< 0.73	**0.099 J**	**0.72**	< 0.72	**0.56 J**
Dimethylphthalate	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
di-n-Butylphthalate	**0.11 J**	**0.22 J**	**0.11 J**	**0.13 J**	**0.46 J**	**0.46 J**
Di-n-Octylphthalate	< 0.73	< 0.73	< 0.73	< 0.71	< 0.72	< 0.72
Fluoranthene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Fluorene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	**0.026 J**
Hexachlorobenzene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Hexachlorobutadiene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 2.9	< 2.8	< 2.9	< 2.9
Hexachloroethane	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
Isophorone	< 0.14	< 0.14	< 0.15	< 0.14	**0.36**	**0.39**
Naphthalene	**0.11 J**	**0.52**	**0.22**	**0.18**	**0.43**	**0.49**
Nitrobenzene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
N-Nitroso-di-n-propylamine	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14
N-Nitrosodiphenylamine	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
Pentachlorophenol	< 12	< 2.9	< 12	< 11	< 11	< 11
Phenanthrene	< 0.14	< 0.14	< 0.15	**0.020 J**	**0.024 J**	**0.034 J**
Phenol	**0.75**	< 0.73	< 0.73	**1.1**	**1.2**	**1.2**
Pyrene	< 0.14	< 0.14	< 0.15	< 0.14	< 0.14	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604019	1604174	1604072	1604072	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Res-Ext
Date Sampled	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016	4/1/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
1,4-Dichlorobenzene	**1.4**	**11**	< 0.15	**0.31**	**0.35**	< 0.15
2,4,5-Trichlorophenol	< 1.5	< 1.4	< 1.5	< 0.74	< 0.71	< 0.74
2,4,6-Trichlorophenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2,4-Dichlorophenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2,4-Dimethylphenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2,4-Dinitrophenol	< 5.9	< 5.8	< 5.9	< 2.9	< 2.8	< 3.0
2,4-Dinitrotoluene	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2,6-Dinitrotoluene	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2-Chloronaphthalene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
2-Chlorophenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2-Methylnaphthalene	< 0.15	**0.075 J**	**0.096 J**	< 0.15	**0.074 J**	< 0.15
2-Methylphenol (o-Cresol)	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
2-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5
2-Nitrophenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 3.0	< 2.9	< 2.8	< 3.0
3-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
4-Chloro-3-methylphenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
4-Chloroaniline	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
4-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5
4-Nitrophenol	< 5.9	< 5.8	< 5.9	< 2.9	< 2.8	< 3.0
Acenaphthene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Acenaphthylene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Anthracene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(a)anthracene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(a)pyrene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Benzoic Acid	< 4.4	< 4.3	< 4.5	< 4.4	< 4.2	< 4.4
bis(2-Chloroethoxy) Methane	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604019	1604174	1604072	1604072	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Res-Ext
Date Sampled	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016	4/1/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
Butylbenzylphthalate	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
Chrysene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Dibenzofuran	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Diethylphthalate	**0.16 J**	**0.23 J**	**0.22 J**	< 0.74	< 0.71	< 0.74
Dimethylphthalate	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
di-n-Butylphthalate	**0.23 J**	**0.13 J**	**0.14 J**	**0.21 J**	**0.22 J**	< 0.74
Di-n-Octylphthalate	< 0.74	< 0.72	< 0.74	< 0.74	< 0.71	< 0.74
Fluoranthene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Fluorene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Hexachlorobenzene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Hexachlorobutadiene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 3.0	< 2.9	< 2.8	< 3.0
Hexachloroethane	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
Isophorone	< 0.15	**0.22**	< 0.15	< 0.15	< 0.14	< 0.15
Naphthalene	**0.28**	**0.38**	**0.65**	**0.15**	**0.18**	**0.037 J**
Nitrobenzene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 2.9	< 2.8	< 3.0
Phenanthrene	< 0.15	< 0.14	< 0.15	**0.014 J**	**0.014 J**	< 0.15
Phenol	**0.42 J**	**1.0**	**0.85**	**0.65 J**	**0.77**	< 0.74
Pyrene	< 0.15	< 0.14	< 0.15	< 0.15	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604174	1604124	1604153	1604153	1603589	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
1,4-Dichlorobenzene	< 0.15	< 0.15	**0.14 J**	**0.092 J**	**0.17**	< 0.15
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
2,4,6-Trichlorophenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2,4-Dichlorophenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2,4-Dimethylphenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2,4-Dinitrophenol	< 5.9	< 5.8	< 5.8	< 5.8	< 5.8	< 5.8
2,4-Dinitrotoluene	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2,6-Dinitrotoluene	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2-Chloronaphthalene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
2-Chlorophenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2-Methylnaphthalene	< 0.15	< 0.15	**0.11 J**	< 0.14	< 0.14	< 0.15
2-Methylphenol (o-Cresol)	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
2-Nitroaniline	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
2-Nitrophenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
3-Nitroaniline	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
4-Chloro-3-methylphenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
4-Chloroaniline	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
4-Nitroaniline	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
4-Nitrophenol	< 5.9	< 5.8	< 5.8	< 5.8	< 5.8	< 5.8
Acenaphthene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Acenaphthylene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Anthracene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Benzo(a)anthracene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Benzo(a)pyrene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Benzoic Acid	< 4.4	< 4.4	< 4.4	< 4.3	< 4.3	< 4.4
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604174	1604124	1604153	1604153	1603589	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
Butylbenzylphthalate	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
Chrysene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Dibenzofuran	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Diethylphthalate	**0.43 J**	< 0.73	**3.6**	**0.50 J**	**0.20 J**	**0.15 J**
Dimethylphthalate	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
di-n-Butylphthalate	< 0.74	**0.39 J**	**0.16 J**	**0.30 J**	**0.17 J**	**0.11 J**
Di-n-Octylphthalate	< 0.74	< 0.73	< 0.73	< 0.72	< 0.72	< 0.73
Fluoranthene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Fluorene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Hexachlorobenzene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Hexachlorobutadiene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Hexachloroethane	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
Isophorone	< 0.15	**0.19**	**0.11 J**	< 0.14	< 0.14	< 0.15
Naphthalene	**0.059 J**	**0.088 J**	**0.34**	**0.68**	**0.047 J**	**0.068 J**
Nitrobenzene	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 12	< 12	< 12
Phenanthrene	< 0.15	< 0.15	< 0.14	**0.023 J**	< 0.14	**0.020 J**
Phenol	**1.2**	**2.5**	**1.1**	**4.3**	**0.41 J**	**1.0**
Pyrene	< 0.15	< 0.15	< 0.14	**0.014 J**	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	**0.21**	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
2,4,5-Trichlorophenol	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
2,4,6-Trichlorophenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2,4-Dichlorophenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2,4-Dimethylphenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2,4-Dinitrophenol	< 5.9	< 4.1	< 4.0	< 5.9	< 5.9	< 5.9
2,4-Dinitrotoluene	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2,6-Dinitrotoluene	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2-Chloronaphthalene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
2-Chlorophenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2-Methylnaphthalene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
2-Methylphenol (o-Cresol)	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
2-Nitroaniline	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
2-Nitrophenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
3,3'-Dichlorobenzidine	< 3.0	< 2.0	< 2.0	< 2.9	< 2.9	< 3.0
3-Nitroaniline	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
4-Chloro-3-methylphenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
4-Chloroaniline	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
4-Nitroaniline	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
4-Nitrophenol	< 5.9	< 4.1	< 4.0	< 5.9	< 5.9	< 5.9
Acenaphthene	< 0.15	< 0.10	**0.021 J**	< 0.15	< 0.15	< 0.15
Acenaphthylene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Anthracene	< 0.15	**0.014 J**	**0.022 J**	< 0.15	< 0.15	< 0.15
Benzo(a)anthracene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Benzo(a)pyrene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Benzoic Acid	< 4.4	< 3.0	< 3.0	< 4.4	< 4.4	< 4.4
bis(2-Chloroethoxy) Methane	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
Butylbenzylphthalate	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
Chrysene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Dibenzofuran	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Diethylphthalate	**0.94**	**0.17 J**	**0.16 J**	**0.24 J**	**0.21 J**	**0.25 J**
Dimethylphthalate	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	**0.43 J**
di-n-Butylphthalate	**0.73 J**	**0.088 J**	**0.092 J**	**0.15 J**	**0.16 J**	**0.30 J**
Di-n-Octylphthalate	< 0.74	< 0.51	< 0.51	< 0.74	< 0.74	< 0.74
Fluoranthene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Fluorene	< 0.15	**0.018 J**	**0.041 J**	< 0.15	< 0.15	< 0.15
Hexachlorobenzene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Hexachlorobutadiene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Hexachlorocyclopentadiene	< 3.0	< 2.0	< 2.0	< 2.9	< 2.9	< 3.0
Hexachloroethane	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Isophorone	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
Naphthalene	**0.12 J**	**0.023 J**	**0.020 J**	**0.22**	**0.18**	**0.093 J**
Nitrobenzene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5	< 1.5
Pentachlorophenol	< 12	< 8.1	< 8.1	< 12	< 12	< 12
Phenanthrene	< 0.15	**0.031 J**	**0.092 J**	< 0.15	< 0.15	< 0.15
Phenol	**0.65 J**	< 0.51	< 0.51	**0.78**	**0.62 J**	**0.46 J**
Pyrene	< 0.15	< 0.10	< 0.10	< 0.15	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604002	1604002	1604002	1604002	1603589	1603589
Location	Residence	Residence	Res-Ext	Residence	Residence	Res-Dup
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
1,4-Dichlorobenzene	**1.6**	< 0.15	< 0.15	< 0.14	**2.0**	**2.2**
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
2,4,6-Trichlorophenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2,4-Dichlorophenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2,4-Dimethylphenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2,4-Dinitrophenol	< 6.0	< 6.0	< 5.9	< 5.8	< 6.0	< 5.7
2,4-Dinitrotoluene	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2,6-Dinitrotoluene	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2-Chloronaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
2-Chlorophenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2-Methylnaphthalene	**0.10 J**	**0.080 J**	< 0.15	< 0.14	< 0.15	< 0.14
2-Methylphenol (o-Cresol)	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
2-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
2-Nitrophenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
3,3'-Dichlorobenzidine	< 3.0	< 3.0	< 2.9	< 2.9	< 3.0	< 2.9
3-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
4-Chloro-3-methylphenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
4-Chloroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
4-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
4-Nitrophenol	< 6.0	< 6.0	< 5.9	< 5.8	< 6.0	< 5.7
Acenaphthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Acenaphthylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(a)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(a)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Benzoic Acid	< 4.5	< 4.5	< 4.4	< 4.4	< 4.5	< 4.3
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604002	1604002	1604002	1604002	1603589	1603589
Location	Residence	Residence	Res-Ext	Residence	Residence	Res-Dup
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016
bis(2-Ethylhexyl)phthalate	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
Butylbenzylphthalate	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
Chrysene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Dibenzofuran	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Diethylphthalate	**0.17 J**	**0.18 J**	< 0.73	**0.13 J**	**1.2**	**1.3**
Dimethylphthalate	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
di-n-Butylphthalate	**0.14 J**	**0.13 J**	< 0.73	**0.14 J**	**0.13 J**	**0.18 J**
Di-n-Octylphthalate	< 0.75	< 0.75	< 0.73	< 0.72	< 0.74	< 0.72
Fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Fluorene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorobutadiene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorocyclopentadiene	< 3.0	< 3.0	< 2.9	< 2.9	< 3.0	< 2.9
Hexachloroethane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Isophorone	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Naphthalene	**0.18**	**0.054 J**	< 0.15	**0.25**	**0.062 J**	**0.073 J**
Nitrobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
Pentachlorophenol	< 12	< 12	< 12	< 12	< 12	< 11
Phenanthrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14
Phenol	**1.1**	**0.62 J**	< 0.73	< 0.72	**1.5**	**1.6**
Pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604018	1604153	1604101	1604173	1604018	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/31/2016	4/6/2016	4/4/2016	4/8/2016	3/31/2016	3/30/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
1,4-Dichlorobenzene	**0.20**	< 0.14	**0.20**	< 0.16	**1.3**	**16**
2,4,5-Trichlorophenol	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
2,4,6-Trichlorophenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2,4-Dichlorophenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2,4-Dimethylphenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2,4-Dinitrophenol	< 5.9	< 5.8	< 5.9	< 6.2	< 6.1	< 6.2
2,4-Dinitrotoluene	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2,6-Dinitrotoluene	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2-Chloronaphthalene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
2-Chlorophenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2-Methylnaphthalene	< 0.15	**0.19**	**0.086 J**	< 0.16	< 0.15	< 0.15
2-Methylphenol (o-Cresol)	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
2-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
2-Nitrophenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 3.0	< 3.1	< 3.0	< 3.1
3-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
4-Chloro-3-methylphenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
4-Chloroaniline	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
4-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
4-Nitrophenol	< 5.9	< 5.8	< 5.9	< 6.2	< 6.1	< 6.2
Acenaphthene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Acenaphthylene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Anthracene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	**0.024 J**
Benzo(a)anthracene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Benzo(a)pyrene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Benzoic Acid	< 4.4	< 4.4	< 4.4	< 4.7	< 4.6	< 4.6
bis(2-Chloroethoxy) Methane	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604018	1604153	1604101	1604173	1604018	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/31/2016	4/6/2016	4/4/2016	4/8/2016	3/31/2016	3/30/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
Butylbenzylphthalate	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
Chrysene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Dibenzofuran	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Diethylphthalate	**0.32 J**	**0.11 J**	< 0.74	**0.23 J**	**0.11 J**	**0.12 J**
Dimethylphthalate	**0.24 J**	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
di-n-Butylphthalate	**0.40 J**	**0.17 J**	**0.22 J**	**0.16 J**	< 0.76	**0.18 J**
Di-n-Octylphthalate	< 0.74	< 0.72	< 0.74	< 0.78	< 0.76	< 0.77
Fluoranthene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	**0.016 J**
Fluorene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Hexachlorobenzene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Hexachlorobutadiene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 3.0	< 3.1	< 3.0	< 3.1
Hexachloroethane	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Isophorone	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
Naphthalene	**0.23**	**0.22**	**0.22**	**0.23**	**0.14 J**	**0.041 J**
Nitrobenzene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 12	< 12	< 12
Phenanthrene	**0.015 J**	**0.021 J**	< 0.15	< 0.16	< 0.15	**0.054 J**
Phenol	**1.3**	**0.91**	**2.4**	**1.0**	**0.80**	**0.46 J**
Pyrene	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604071	1604002	1604002	1604153	1604100	1604018
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	3/30/2016	3/30/2016	4/6/2016	4/4/2016	3/31/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,4-Dichlorobenzene	**1.7**	< 0.15	< 0.15	**0.74**	< 0.15	**0.13 J**
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
2,4,6-Trichlorophenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2,4-Dichlorophenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2,4-Dimethylphenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2,4-Dinitrophenol	< 6.0	< 6.0	< 5.9	< 5.7	< 5.9	< 6.0
2,4-Dinitrotoluene	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2,6-Dinitrotoluene	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2-Chloronaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
2-Chlorophenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2-Methylnaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
2-Methylphenol (o-Cresol)	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
2-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
2-Nitrophenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
3,3'-Dichlorobenzidine	< 3.0	< 3.0	< 2.9	< 2.9	< 3.0	< 3.0
3-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
4-Chloro-3-methylphenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
4-Chloroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
4-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Nitrophenol	< 6.0	< 6.0	< 5.9	< 5.7	< 5.9	< 6.0
Acenaphthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Acenaphthylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(a)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(a)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzoic Acid	< 4.5	< 4.5	< 4.4	< 4.3	< 4.4	< 4.5
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604071	1604002	1604002	1604153	1604100	1604018
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	3/30/2016	3/30/2016	4/6/2016	4/4/2016	3/31/2016
bis(2-Ethylhexyl)phthalate	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
Butylbenzylphthalate	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
Chrysene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Dibenzofuran	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Diethylphthalate	< 0.75	**0.20 J**	**0.14 J**	**0.18 J**	**0.34 J**	**0.14 J**
Dimethylphthalate	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
di-n-Butylphthalate	**0.098 J**	< 0.74	**0.15 J**	< 0.72	**0.095 J**	**0.29 J**
Di-n-Octylphthalate	< 0.75	< 0.74	< 0.73	< 0.72	< 0.74	< 0.75
Fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Fluorene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorobutadiene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorocyclopentadiene	< 3.0	< 3.0	< 2.9	< 2.9	< 3.0	< 3.0
Hexachloroethane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Isophorone	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Naphthalene	**0.11 J**	**0.029 J**	**0.031 J**	**0.049 J**	**0.030 J**	**0.072 J**
Nitrobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 11	< 12	< 12
Phenanthrene	< 0.15	< 0.15	< 0.15	**0.013 J**	< 0.15	< 0.15
Phenol	**0.64 J**	**0.56 J**	< 0.73	**1.1**	**0.64 J**	**0.56 J**
Pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604100	1603589	1604070	1604002	1604101	1604124
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/29/2016	4/1/2016	3/30/2016	4/4/2016	4/6/2016
1,2,4-Trichlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
1,2-Dichlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
1,3-Dichlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
1,4-Dichlorobenzene	< 0.14	< 0.15	< 0.15	**1.4**	**0.14 J**	< 0.14
2,4,5-Trichlorophenol	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
2,4,6-Trichlorophenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2,4-Dichlorophenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2,4-Dimethylphenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2,4-Dinitrophenol	< 5.8	< 5.8	< 6.0	< 5.8	< 5.7	< 5.8
2,4-Dinitrotoluene	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2,6-Dinitrotoluene	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2-Chloronaphthalene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
2-Chlorophenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2-Methylnaphthalene	< 0.14	< 0.15	< 0.15	< 0.14	**0.17**	< 0.14
2-Methylphenol (o-Cresol)	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
2-Nitroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
2-Nitrophenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 3.0	< 2.9	< 2.9	< 2.9
3-Nitroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
4-Bromophenyl-phenyl Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
4-Chloro-3-methylphenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
4-Chloroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
4-Nitroaniline	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
4-Nitrophenol	< 5.8	< 5.8	< 6.0	< 5.8	< 5.7	< 5.8
Acenaphthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Acenaphthylene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Anthracene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(a)anthracene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(a)pyrene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(b)fluoranthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(g,h,i)perylene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Benzo(k)fluoranthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Benzoic Acid	< 4.3	< 4.4	< 4.5	< 4.3	< 4.3	< 4.3
bis(2-Chloroethoxy) Methane	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
bis(2-Chloroethyl) Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604100	1603589	1604070	1604002	1604101	1604124
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/29/2016	4/1/2016	3/30/2016	4/4/2016	4/6/2016
bis(2-Ethylhexyl)phthalate	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
Butylbenzylphthalate	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
Chrysene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Dibenz(a,h)anthracene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Dibenzofuran	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Diethylphthalate	< 0.72	**0.13 J**	< 0.74	**0.20 J**	< 0.72	< 0.72
Dimethylphthalate	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	**0.18 J**
di-n-Butylphthalate	**0.15 J**	**0.11 J**	**0.16 J**	**0.11 J**	**0.39 J**	**0.26 J**
Di-n-Octylphthalate	< 0.72	< 0.73	< 0.74	< 0.72	< 0.72	< 0.72
Fluoranthene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Fluorene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Hexachlorobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Hexachlorobutadiene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 3.0	< 2.9	< 2.9	< 2.9
Hexachloroethane	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
Isophorone	< 0.14	< 0.15	**0.098 J**	< 0.14	< 0.14	< 0.14
Naphthalene	**0.090 J**	**0.031 J**	**0.13 J**	**0.095 J**	**2.2**	**0.048 J**
Nitrobenzene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
N-Nitroso-di-n-propylamine	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14
N-Nitrosodiphenylamine	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
Pentachlorophenol	< 12	< 12	< 12	< 12	< 11	< 12
Phenanthrene	**0.028 J**	< 0.15	< 0.15	< 0.14	**0.018 J**	< 0.14
Phenol	**0.60 J**	**0.57 J**	**1.4**	**0.73**	**2.7**	**1.1**
Pyrene	< 0.14	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604101	1604018	1604018	1604018	1604072	1603589
Location	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/29/2016
1,2,4-Trichlorobenzene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
1,2-Dichlorobenzene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
1,3-Dichlorobenzene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
1,4-Dichlorobenzene	**0.94**	< 0.15	**0.11 J**	**0.14 J**	< 0.14	< 0.15
2,4,5-Trichlorophenol	< 1.2	< 1.5	< 1.5	< 1.5	< 0.72	< 1.5
2,4,6-Trichlorophenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2,4-Dichlorophenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2,4-Dimethylphenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2,4-Dinitrophenol	< 4.9	< 5.8	< 5.8	< 5.9	< 2.9	< 5.9
2,4-Dinitrotoluene	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2,6-Dinitrotoluene	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2-Chloronaphthalene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
2-Chlorophenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2-Methylnaphthalene	< 0.12	**0.075 J**	< 0.15	< 0.15	< 0.14	< 0.15
2-Methylphenol (o-Cresol)	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
2-Nitroaniline	< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
2-Nitrophenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
3,3'-Dichlorobenzidine	< 2.5	< 2.9	< 2.9	< 3.0	< 2.9	< 3.0
3-Nitroaniline	< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
4,6-Dinitro-2-methylphenol	< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
4-Bromophenyl-phenyl Ether	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
4-Chloro-3-methylphenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
4-Chloroaniline	< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
4-Nitroaniline	< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
4-Nitrophenol	< 4.9	< 5.8	< 5.8	< 5.9	< 2.9	< 5.9
Acenaphthene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Acenaphthylene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Anthracene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(a)anthracene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(a)pyrene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(b)fluoranthene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(g,h,i)perylene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Benzo(k)fluoranthene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Benzoic Acid	< 3.7	< 4.4	< 4.4	< 4.4	< 4.3	< 4.4
bis(2-Chloroethoxy) Methane	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
bis(2-Chloroethyl) Ether	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604101	1604018	1604018	1604018	1604072	1603589
Location	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/29/2016
bis(2-Ethylhexyl)phthalate	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
Butylbenzylphthalate	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
Chrysene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Dibenz(a,h)anthracene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Dibenzofuran	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Diethylphthalate	< 0.62	**0.36 J**	**0.28 J**	**0.28 J**	< 0.72	**0.16 J**
Dimethylphthalate	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
di-n-Butylphthalate	**0.39 J**	**0.16 J**	**0.13 J**	**0.19 J**	**0.54 J**	< 0.74
Di-n-Octylphthalate	< 0.62	< 0.73	< 0.73	< 0.74	< 0.72	< 0.74
Fluoranthene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Fluorene	**0.023 J**	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Hexachlorobenzene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Hexachlorobutadiene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Hexachlorocyclopentadiene	< 2.5	< 2.9	< 2.9	< 3.0	< 2.9	< 3.0
Hexachloroethane	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Isophorone	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Naphthalene	**0.081 J**	**0.12 J**	**0.083 J**	**0.24**	**0.13 J**	**0.042 J**
Nitrobenzene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
N-Nitroso-di-n-propylamine	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
N-Nitrosodiphenylamine	< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
Pentachlorophenol	< 9.9	< 12	< 12	< 12	< 2.9	< 12
Phenanthrene	**0.033 J**	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Phenol	**0.65**	**0.91**	**0.67 J**	**0.85**	**0.56 J**	< 0.74
Pyrene	< 0.12	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604124	1604101	1604101	1604124	1604124
Location	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
2,4,6-Trichlorophenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2,4-Dichlorophenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2,4-Dimethylphenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2,4-Dinitrophenol	< 5.9	< 6.0	< 6.1	< 5.9	< 5.8	< 5.8
2,4-Dinitrotoluene	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2,6-Dinitrotoluene	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2-Chloronaphthalene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
2-Chlorophenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2-Methylnaphthalene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
2-Methylphenol (o-Cresol)	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
2-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
2-Nitrophenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
3,3'-Dichlorobenzidine	< 2.9	< 3.0	< 3.0	< 2.9	< 2.9	< 2.9
3-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
4-Chloro-3-methylphenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
4-Chloroaniline	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
4-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
4-Nitrophenol	< 5.9	< 6.0	< 6.1	< 5.9	< 5.8	< 5.8
Acenaphthene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Acenaphthylene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Anthracene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzo(a)anthracene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzo(a)pyrene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Benzoic Acid	< 4.4	< 4.5	< 4.5	< 4.4	< 4.4	< 4.4
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604124	1604101	1604101	1604124	1604124
Location	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.75	< 0.76	**0.30 J**	< 0.73	< 0.73
Butylbenzylphthalate	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
Chrysene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Dibenzofuran	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Diethylphthalate	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
Dimethylphthalate	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
di-n-Butylphthalate	< 0.74	**0.22 J**	**0.24 J**	< 0.74	**0.17 J**	**0.17 J**
Di-n-Octylphthalate	< 0.74	< 0.75	< 0.76	< 0.74	< 0.73	< 0.73
Fluoranthene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Fluorene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Hexachlorobenzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Hexachlorobutadiene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Hexachlorocyclopentadiene	< 2.9	< 3.0	< 3.0	< 2.9	< 2.9	< 2.9
Hexachloroethane	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Isophorone	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Naphthalene	< 0.15	**0.059 J**	**0.035 J**	< 0.15	< 0.15	< 0.15
Nitrobenzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 12	< 12	< 12
Phenanthrene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Phenol	< 0.74	**1.2**	**0.65 J**	< 0.74	< 0.73	**0.55 J**
Pyrene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
1,4-Dichlorobenzene	< 0.15	**0.81**	**1.9**	< 0.14	**2.2**	**0.33**
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
2,4,6-Trichlorophenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2,4-Dichlorophenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2,4-Dimethylphenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2,4-Dinitrophenol	< 5.9	< 5.9	< 6.1	< 5.8	< 5.8	< 6.1
2,4-Dinitrotoluene	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2,6-Dinitrotoluene	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2-Chloronaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
2-Chlorophenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2-Methylnaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
2-Methylphenol (o-Cresol)	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
2-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
2-Nitrophenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 3.0	< 2.9	< 2.9	< 3.0
3-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
4-Chloro-3-methylphenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
4-Chloroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
4-Methylphenol/ 3-Methylphenol	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
4-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
4-Nitrophenol	< 5.9	< 5.9	< 6.1	< 5.8	< 5.8	< 6.1
Acenaphthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Acenaphthylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(a)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(a)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Benzoic Acid	< 4.4	< 4.4	< 4.6	< 4.3	< 4.4	< 4.6
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
Butylbenzylphthalate	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
Chrysene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Dibenzofuran	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Diethylphthalate	< 0.73	**0.11 J**	**0.29 J**	< 0.72	**0.28 J**	**1.3**
Dimethylphthalate	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
di-n-Butylphthalate	**0.19 J**	**0.16 J**	**0.18 J**	< 0.72	**0.66 J**	**0.17 J**
Di-n-Octylphthalate	< 0.73	< 0.73	< 0.76	< 0.72	< 0.73	< 0.76
Fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Fluorene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorobutadiene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 3.0	< 2.9	< 2.9	< 3.0
Hexachloroethane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Isophorone	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
Naphthalene	**0.078 J**	**0.056 J**	**0.17**	**0.052 J**	**0.051 J**	**0.082 J**
Nitrobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5
Pentachlorophenol	< 12	< 12	< 12	< 12	< 12	< 12
Phenanthrene	**0.018 J**	< 0.15	< 0.15	**0.014 J**	**0.014 J**	**0.017 J**
Phenol	**0.61 J**	**1.3**	**0.51 J**	**0.83**	**1.0**	**1.0**
Pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.15

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604158	1604019	1603589	1604124	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016
1,2,4-Trichlorobenzene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
1,2-Dichlorobenzene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
1,3-Dichlorobenzene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
1,4-Dichlorobenzene	< 0.14	< 0.15	**1.2**	< 0.15	< 0.14	< 0.14
2,4,5-Trichlorophenol	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 0.72
2,4,6-Trichlorophenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2,4-Dichlorophenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2,4-Dimethylphenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2,4-Dinitrophenol	< 5.5	< 6.0	< 5.8	< 5.9	< 5.7	< 2.9
2,4-Dinitrotoluene	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2,6-Dinitrotoluene	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2-Chloronaphthalene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
2-Chlorophenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2-Methylnaphthalene	< 0.14	< 0.15	**0.083 J**	< 0.15	**0.10 J**	< 0.14
2-Methylphenol (o-Cresol)	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
2-Nitroaniline	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
2-Nitrophenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
3,3'-Dichlorobenzidine	< 2.8	< 3.0	< 2.9	< 3.0	< 2.9	< 2.9
3-Nitroaniline	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
4-Bromophenyl-phenyl Ether	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
4-Chloro-3-methylphenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
4-Chloroaniline	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
4-Nitroaniline	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
4-Nitrophenol	< 5.5	< 6.0	< 5.8	< 5.9	< 5.7	< 2.9
Acenaphthene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Acenaphthylene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Anthracene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Benzo(a)anthracene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Benzo(a)pyrene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Benzo(b)fluoranthene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Benzo(g,h,i)perylene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Benzo(k)fluoranthene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Benzoic Acid	< 4.1	< 4.5	< 4.3	< 4.4	< 4.3	< 4.3
bis(2-Chloroethoxy) Methane	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
bis(2-Chloroethyl) Ether	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604158	1604019	1603589	1604124	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016
bis(2-Ethylhexyl)phthalate	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
Butylbenzylphthalate	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
Chrysene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Dibenz(a,h)anthracene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Dibenzofuran	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Diethylphthalate	< 0.69	**0.49 J**	**0.11 J**	< 0.74	< 0.72	< 0.72
Dimethylphthalate	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
di-n-Butylphthalate	< 0.69	**0.17 J**	**0.17 J**	< 0.74	**0.38 J**	**0.24 J**
Di-n-Octylphthalate	< 0.69	< 0.75	< 0.72	< 0.74	< 0.72	< 0.72
Fluoranthene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Fluorene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Hexachlorobenzene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Hexachlorobutadiene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Hexachlorocyclopentadiene	< 2.8	< 3.0	< 2.9	< 3.0	< 2.9	< 2.9
Hexachloroethane	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
Isophorone	< 0.14	< 0.15	< 0.14	< 0.15	**0.13 J**	< 0.14
Naphthalene	< 0.14	**0.066 J**	**0.15**	**0.043 J**	**0.59**	**0.070 J**
Nitrobenzene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
N-Nitroso-di-n-propylamine	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14
N-Nitrosodiphenylamine	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
Pentachlorophenol	< 11	< 12	< 12	< 12	< 11	< 2.9
Phenanthrene	< 0.14	< 0.15	**0.025 J**	< 0.15	< 0.14	< 0.14
Phenol	< 0.69	< 0.75	**0.68 J**	< 0.74	**2.4**	**0.67 J**
Pyrene	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604072	1604002	1604002	1603589	1604100
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/1/2016	3/30/2016	3/30/2016	3/29/2016	4/4/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
1,4-Dichlorobenzene	< 0.15	**0.10 J**	**0.45**	< 0.14	< 0.15	< 0.14
2,4,5-Trichlorophenol	< 1.5	< 0.74	< 3.4	< 1.4	< 1.5	< 1.4
2,4,6-Trichlorophenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2,4-Dichlorophenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2,4-Dimethylphenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2,4-Dinitrophenol	< 6.0	< 3.0	< 14	< 5.8	< 6.0	< 5.7
2,4-Dinitrotoluene	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2,6-Dinitrotoluene	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2-Chloronaphthalene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
2-Chlorophenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2-Methylnaphthalene	< 0.15	**0.078 J**	< 0.34	< 0.14	**0.083 J**	< 0.14
2-Methylphenol (o-Cresol)	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
2-Nitroaniline	< 1.5	< 1.5	< 3.4	< 1.4	< 1.5	< 1.4
2-Nitrophenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
3,3'-Dichlorobenzidine	< 3.0	< 3.0	< 6.9	< 2.9	< 3.0	< 2.9
3-Nitroaniline	< 1.5	< 1.5	< 3.4	< 1.4	< 1.5	< 1.4
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 3.4	< 1.4	< 1.5	< 1.4
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
4-Chloro-3-methylphenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
4-Chloroaniline	< 1.5	< 1.5	< 3.4	< 1.4	< 1.5	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
4-Nitroaniline	< 1.5	< 1.5	< 3.4	< 1.4	< 1.5	< 1.4
4-Nitrophenol	< 6.0	< 3.0	< 14	< 5.8	< 6.0	< 5.7
Acenaphthene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Acenaphthylene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Anthracene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Benzo(a)anthracene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Benzo(a)pyrene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Benzoic Acid	< 4.5	< 4.4	< 10	< 4.4	< 4.5	< 4.3
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1603589	1604072	1604002	1604002	1603589	1604100
Location	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	3/29/2016	4/1/2016	3/30/2016	3/30/2016	3/29/2016	4/4/2016
bis(2-Ethylhexyl)phthalate	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	**0.48 J**
Butylbenzylphthalate	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
Chrysene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Dibenzofuran	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Diethylphthalate	< 0.75	< 0.74	**0.24 J**	**0.17 J**	**0.13 J**	< 0.72
Dimethylphthalate	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
di-n-Butylphthalate	< 0.75	**0.099 J**	**0.25 J**	**0.14 J**	< 0.75	**0.29 J**
Di-n-Octylphthalate	< 0.75	< 0.74	< 1.7	< 0.73	< 0.75	< 0.72
Fluoranthene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Fluorene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Hexachlorobenzene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Hexachlorobutadiene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Hexachlorocyclopentadiene	< 3.0	< 3.0	< 6.9	< 2.9	< 3.0	< 2.9
Hexachloroethane	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Isophorone	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Naphthalene	< 0.15	**0.11 J**	**0.17 J**	**0.16**	**0.14 J**	**0.095 J**
Nitrobenzene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 3.4	< 1.4	< 1.5	< 1.4
Pentachlorophenol	< 12	< 3.0	< 28	< 12	< 12	< 11
Phenanthrene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14
Phenol	< 0.75	**2.2**	< 1.7	**0.50 J**	**0.68 J**	**0.71 J**
Pyrene	< 0.15	< 0.15	< 0.34	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604153	1604153	1604124	1604124	1603589	1604071
Location	Residence	Res-Ext	Residence	Res-Ext	Residence	Residence
Date Sampled	4/6/2016	4/6/2016	4/5/2016	4/5/2016	3/29/2016	4/1/2016
1,2,4-Trichlorobenzene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
1,2-Dichlorobenzene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
1,3-Dichlorobenzene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
1,4-Dichlorobenzene	< 0.14	< 0.14	**8.0**	< 0.15	**52**	**0.25**
2,4,5-Trichlorophenol	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
2,4,6-Trichlorophenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2,4-Dichlorophenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2,4-Dimethylphenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2,4-Dinitrophenol	< 5.8	< 5.8	< 5.8	< 6.1	< 14	< 5.8
2,4-Dinitrotoluene	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2,6-Dinitrotoluene	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2-Chloronaphthalene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
2-Chlorophenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2-Methylnaphthalene	**0.15**	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
2-Methylphenol (o-Cresol)	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
2-Nitroaniline	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
2-Nitrophenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
3,3'-Dichlorobenzidine	< 2.9	< 2.9	< 2.9	< 3.1	< 6.8	< 2.9
3-Nitroaniline	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
4,6-Dinitro-2-methylphenol	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
4-Bromophenyl-phenyl Ether	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
4-Chloro-3-methylphenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
4-Chloroaniline	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
4-Nitroaniline	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
4-Nitrophenol	< 5.8	< 5.8	< 5.8	< 6.1	< 14	< 5.8
Acenaphthene	**0.022 J**	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Acenaphthylene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Anthracene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Benzo(a)anthracene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Benzo(a)pyrene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Benzo(b)fluoranthene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Benzo(g,h,i)perylene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Benzo(k)fluoranthene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Benzoic Acid	< 4.3	< 4.3	< 4.3	< 4.6	< 10	< 4.3
bis(2-Chloroethoxy) Methane	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
bis(2-Chloroethyl) Ether	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604153	1604153	1604124	1604124	1603589	1604071
Location	Residence	Res-Ext	Residence	Res-Ext	Residence	Residence
Date Sampled	4/6/2016	4/6/2016	4/5/2016	4/5/2016	3/29/2016	4/1/2016
bis(2-Ethylhexyl)phthalate	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
Butylbenzylphthalate	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
Chrysene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Dibenz(a,h)anthracene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Dibenzofuran	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Diethylphthalate	**0.51 J**	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
Dimethylphthalate	**0.12 J**	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
di-n-Butylphthalate	**0.45 J**	< 0.72	**0.39 J**	< 0.76	< 1.7	**0.18 J**
Di-n-Octylphthalate	< 0.72	< 0.72	< 0.72	< 0.76	< 1.7	< 0.72
Fluoranthene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Fluorene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Hexachlorobenzene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Hexachlorobutadiene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Hexachlorocyclopentadiene	< 2.9	< 2.9	< 2.9	< 3.1	< 6.8	< 2.9
Hexachloroethane	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Isophorone	**0.22**	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Naphthalene	**0.20**	**0.044 J**	**1.4**	< 0.15	< 0.34	**0.052 J**
Nitrobenzene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
N-Nitroso-di-n-propylamine	< 0.14	< 0.14	**0.12 J**	< 0.15	< 0.34	< 0.14
N-Nitrosodiphenylamine	< 1.4	< 1.4	< 1.4	< 1.5	< 3.4	< 1.4
Pentachlorophenol	< 12	< 12	< 12	< 12	< 27	< 12
Phenanthrene	**0.020 J**	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14
Phenol	**0.96**	< 0.72	**2.1**	< 0.76	< 1.7	**0.58 J**
Pyrene	< 0.14	< 0.14	< 0.14	< 0.15	< 0.34	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604019	1604124	1604124	1604019	1604100	1604153
Location	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	3/31/2016	4/5/2016	4/5/2016	3/31/2016	4/4/2016	4/6/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
1,4-Dichlorobenzene	< 0.15	**0.094 J**	< 0.17	< 0.14	< 0.15	< 0.14
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
2,4,6-Trichlorophenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2,4-Dichlorophenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2,4-Dimethylphenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2,4-Dinitrophenol	< 5.9	< 6.1	< 6.7	< 5.8	< 5.8	< 5.7
2,4-Dinitrotoluene	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2,6-Dinitrotoluene	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2-Chloronaphthalene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
2-Chlorophenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2-Methylnaphthalene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	**0.066 J**
2-Methylphenol (o-Cresol)	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
2-Nitroaniline	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
2-Nitrophenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
3,3'-Dichlorobenzidine	< 2.9	< 3.0	< 3.3	< 2.9	< 2.9	< 2.9
3-Nitroaniline	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
4-Chloro-3-methylphenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
4-Chloroaniline	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
4-Nitroaniline	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
4-Nitrophenol	< 5.9	< 6.1	< 6.7	< 5.8	< 5.8	< 5.7
Acenaphthene	< 0.15	< 0.15	**0.024 J**	< 0.14	< 0.15	**0.026 J**
Acenaphthylene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Anthracene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Benzo(a)anthracene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Benzo(a)pyrene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Benzoic Acid	< 4.4	< 4.6	< 5.0	< 4.4	< 4.4	< 4.3
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604019	1604124	1604124	1604019	1604100	1604153
Location	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	3/31/2016	4/5/2016	4/5/2016	3/31/2016	4/4/2016	4/6/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
Butylbenzylphthalate	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
Chrysene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Dibenzofuran	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Diethylphthalate	**0.30 J**	< 0.76	< 0.83	**0.16 J**	< 0.73	**0.28 J**
Dimethylphthalate	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
di-n-Butylphthalate	**0.36 J**	**0.27 J**	**0.28 J**	**0.18 J**	**0.21 J**	**0.24 J**
Di-n-Octylphthalate	< 0.74	< 0.76	< 0.83	< 0.73	< 0.73	< 0.72
Fluoranthene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Fluorene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Hexachlorobenzene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Hexachlorobutadiene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Hexachlorocyclopentadiene	< 2.9	< 3.0	< 3.3	< 2.9	< 2.9	< 2.9
Hexachloroethane	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
Isophorone	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	**0.16**
Naphthalene	**0.066 J**	**0.087 J**	**0.076 J**	**0.15**	**0.050 J**	**0.10 J**
Nitrobenzene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
Pentachlorophenol	< 12	< 12	< 13	< 12	< 12	< 11
Phenanthrene	**0.015 J**	**0.019 J**	**0.019 J**	< 0.14	**0.022 J**	**0.014 J**
Phenol	**0.79**	**1.8**	**1.8**	**0.51 J**	**2.1**	**1.9**
Pyrene	< 0.15	< 0.15	< 0.17	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604002	1603589	1603589	1604123	1604154	1604154
Location	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016	4/6/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
1,2-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
1,3-Dichlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
1,4-Dichlorobenzene	**4.9**	**0.095 J**	< 0.15	**9.0**	**1.1**	**1.4**
2,4,5-Trichlorophenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
2,4,6-Trichlorophenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2,4-Dichlorophenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2,4-Dimethylphenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2,4-Dinitrophenol	< 6.0	< 6.0	< 5.9	< 5.7	< 6.1	< 6.3
2,4-Dinitrotoluene	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2,6-Dinitrotoluene	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2-Chloronaphthalene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
2-Chlorophenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2-Methylnaphthalene	< 0.15	< 0.15	< 0.15	**0.083 J**	< 0.15	< 0.16
2-Methylphenol (o-Cresol)	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
2-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
2-Nitrophenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
3,3'-Dichlorobenzidine	< 3.0	< 3.0	< 3.0	< 2.9	< 3.0	< 3.2
3-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
4,6-Dinitro-2-methylphenol	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
4-Bromophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
4-Chloro-3-methylphenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
4-Chloroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
4-Methylphenol/ 3-Methylphenol	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
4-Nitroaniline	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
4-Nitrophenol	< 6.0	< 6.0	< 5.9	< 5.7	< 6.1	< 6.3
Acenaphthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Acenaphthylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Benzo(a)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Benzo(a)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Benzo(b)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Benzo(g,h,i)perylene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Benzo(k)fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Benzoic Acid	< 4.5	< 4.5	< 4.4	< 4.3	< 4.6	< 4.8
bis(2-Chloroethoxy) Methane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
bis(2-Chloroethyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604002	1603589	1603589	1604123	1604154	1604154
Location	Residence	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016	4/6/2016
bis(2-Ethylhexyl)phthalate	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
Butylbenzylphthalate	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
Chrysene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Dibenz(a,h)anthracene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Dibenzofuran	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Diethylphthalate	**0.15 J**	**0.12 J**	< 0.74	< 0.72	**0.37 J**	**0.42 J**
Dimethylphthalate	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
di-n-Butylphthalate	**0.21 J**	**0.20 J**	**0.10**	**1.1**	**0.66 J**	**0.80**
Di-n-Octylphthalate	< 0.75	< 0.76	< 0.74	< 0.72	< 0.76	< 0.79
Fluoranthene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Fluorene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Hexachlorobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Hexachlorobutadiene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Hexachlorocyclopentadiene	< 3.0	< 3.0	< 3.0	< 2.9	< 3.0	< 3.2
Hexachloroethane	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
Isophorone	< 0.15	< 0.15	< 0.15	< 0.14	**0.10 J**	**0.12 J**
Naphthalene	**0.077 J**	**0.069 J**	**0.051 J**	**0.84**	**0.12 J**	**0.13 J**
Nitrobenzene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
N-Nitroso-di-n-propylamine	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16
N-Nitrosodiphenylamine	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6
Pentachlorophenol	< 12	< 12	< 12	< 11	< 12	< 13
Phenanthrene	**0.036 J**	< 0.15	< 0.15	**0.027 J**	< 0.15	< 0.16
Phenol	**0.50 J**	**1.5**	< 0.74	**0.91**	**1.6**	**2.0**
Pyrene	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15	< 0.16

Notes:

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604173	1604157	1604157	1604157	1604156	1604156
Location	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
1,2-Dichlorobenzene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
1,3-Dichlorobenzene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
1,4-Dichlorobenzene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
2,4,5-Trichlorophenol	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
2,4,6-Trichlorophenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2,4-Dichlorophenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2,4-Dimethylphenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2,4-Dinitrophenol	< 5.9	< 22	< 24	< 23	< 16	< 16
2,4-Dinitrotoluene	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2,6-Dinitrotoluene	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2-Chloronaphthalene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
2-Chlorophenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2-Methylnaphthalene	**0.067 J**	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
2-Methylphenol (o-Cresol)	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
2-Nitroaniline	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
2-Nitrophenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
3,3'-Dichlorobenzidine	< 2.9	< 11	< 12	< 11	< 8.2	< 8.2
3-Nitroaniline	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
4,6-Dinitro-2-methylphenol	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
4-Bromophenyl-phenyl Ether	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
4-Chloro-3-methylphenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
4-Chloroaniline	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
4-Methylphenol/ 3-Methylphenol	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
4-Nitroaniline	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
4-Nitrophenol	< 5.9	< 22	< 24	< 23	< 16	< 16
Acenaphthene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	**0.080 J**
Acenaphthylene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Anthracene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Benzo(a)anthracene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Benzo(a)pyrene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Benzo(b)fluoranthene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Benzo(g,h,i)perylene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Benzo(k)fluoranthene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Benzoic Acid	< 4.4	< 16	< 18	< 17	< 12	< 12
bis(2-Chloroethoxy) Methane	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
bis(2-Chloroethyl) Ether	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604173	1604157	1604157	1604157	1604156	1604156
Location	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
bis(2-Ethylhexyl)phthalate	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
Butylbenzylphthalate	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
Chrysene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Dibenz(a,h)anthracene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Dibenzofuran	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Diethylphthalate	**0.52 J**	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
Dimethylphthalate	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
di-n-Butylphthalate	**1.0**	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
Di-n-Octylphthalate	< 0.73	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
Fluoranthene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Fluorene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Hexachlorobenzene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Hexachlorobutadiene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Hexachlorocyclopentadiene	< 2.9	< 11	< 12	< 11	< 8.2	< 8.2
Hexachloroethane	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Isophorone	**0.11 J**	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Naphthalene	**0.19**	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
Nitrobenzene	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
N-Nitroso-di-n-propylamine	< 0.15	< 0.55	< 0.59	< 0.57	< 0.41	< 0.41
N-Nitrosodiphenylamine	< 1.5	< 5.5	< 5.9	< 5.7	< 4.1	< 4.1
Pentachlorophenol	< 12	< 44	< 47	< 46	< 33	< 33
Phenanthrene	**0.019 J**	< 0.55	< 0.59	< 0.57	< 0.41	**0.042 J**
Phenol	**1.0**	< 2.8	< 2.9	< 2.9	< 2.0	< 2.1
Pyrene	**0.011 J**	< 0.55	< 0.59	< 0.57	< 0.41	**0.087 J**

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124
Location	School	School	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016
1,2,4-Trichlorobenzene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
1,2-Dichlorobenzene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
1,3-Dichlorobenzene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
1,4-Dichlorobenzene	< 0.44	< 0.44	**0.14 J**	**0.080 J**	**0.19**	**0.56**
2,4,5-Trichlorophenol	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
2,4,6-Trichlorophenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
2,4-Dichlorophenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
2,4-Dimethylphenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
2,4-Dinitrophenol	< 18	< 18	< 5.9	< 5.9	< 6.2	< 5.8
2,4-Dinitrotoluene	< 2.2	< 2.2	< 0.74	**0.17 J**	< 0.78	< 0.72
2,6-Dinitrotoluene	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
2-Chloronaphthalene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
2-Chlorophenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
2-Methylnaphthalene	< 0.44	< 0.44	**0.11 J**	< 0.15	**0.20**	**0.071 J**
2-Methylphenol (o-Cresol)	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
2-Nitroaniline	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
2-Nitrophenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
3,3'-Dichlorobenzidine	< 8.9	< 8.8	< 2.9	< 3.0	< 3.1	< 2.9
3-Nitroaniline	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
4,6-Dinitro-2-methylphenol	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
4-Bromophenyl-phenyl Ether	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
4-Chloro-3-methylphenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
4-Chloroaniline	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
4-Methylphenol/ 3-Methylphenol	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
4-Nitroaniline	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
4-Nitrophenol	< 18	< 18	< 5.9	< 5.9	< 6.2	< 5.8
Acenaphthene	< 0.44	< 0.44	< 0.15	**0.056 J**	**0.041 J**	< 0.14
Acenaphthylene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Anthracene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Benzo(a)anthracene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Benzo(a)pyrene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Benzo(b)fluoranthene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Benzo(g,h,i)perylene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Benzo(k)fluoranthene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Benzoic Acid	< 13	< 13	< 4.4	< 4.4	< 4.6	< 4.3
bis(2-Chloroethoxy) Methane	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
bis(2-Chloroethyl) Ether	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124
Location	School	School	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016
bis(2-Ethylhexyl)phthalate	**0.80 J**	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
Butylbenzylphthalate	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
Chrysene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Dibenz(a,h)anthracene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Dibenzofuran	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Diethylphthalate	< 2.2	< 2.2	< 0.74	**0.15 J**	< 0.78	< 0.72
Dimethylphthalate	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
di-n-Butylphthalate	< 2.2	< 2.2	**0.18 J**	**0.22 J**	**0.36 J**	**0.15 J**
Di-n-Octylphthalate	< 2.2	< 2.2	< 0.74	< 0.74	< 0.78	< 0.72
Fluoranthene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Fluorene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Hexachlorobenzene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Hexachlorobutadiene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Hexachlorocyclopentadiene	< 8.9	< 8.8	< 2.9	< 3.0	< 3.1	< 2.9
Hexachloroethane	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
Isophorone	< 0.44	< 0.44	< 0.15	< 0.15	**0.12 J**	< 0.14
Naphthalene	< 0.44	< 0.44	**0.88**	**0.060 J**	**0.55**	**0.32**
Nitrobenzene	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
N-Nitroso-di-n-propylamine	< 0.44	< 0.44	< 0.15	< 0.15	< 0.16	< 0.14
N-Nitrosodiphenylamine	< 4.4	< 4.4	< 1.5	< 1.5	< 1.6	< 1.4
Pentachlorophenol	< 36	< 35	< 12	< 12	< 12	< 12
Phenanthrene	< 0.44	< 0.44	**0.023 J**	**0.035 J**	**0.021 J**	**0.013 J**
Phenol	< 2.2	< 2.2	**0.87**	< 0.74	**1.4**	**1.0**
Pyrene	< 0.44	< 0.44	< 0.15	**0.084 J**	< 0.16	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter ($\mu g/m^3$)

Results file number	1604072	1604154	1604154	1604154	1604100	1604100
Location	Control	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/1/2016	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
1,2,4-Trichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
1,2-Dichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
1,3-Dichlorobenzene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
1,4-Dichlorobenzene	**0.098 J**	**0.16**	**0.11 J**	< 0.14	**3.7**	< 0.14
2,4,5-Trichlorophenol	< 0.74	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
2,4,6-Trichlorophenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2,4-Dichlorophenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2,4-Dimethylphenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2,4-Dinitrophenol	< 3.0	< 5.8	< 6.0	< 5.8	< 6.0	< 5.8
2,4-Dinitrotoluene	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2,6-Dinitrotoluene	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2-Chloronaphthalene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
2-Chlorophenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2-Methylnaphthalene	**0.28**	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
2-Methylphenol (o-Cresol)	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
2-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
2-Nitrophenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
3,3'-Dichlorobenzidine	< 3.0	< 2.9	< 3.0	< 2.9	< 3.0	< 2.9
3-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
4,6-Dinitro-2-methylphenol	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
4-Bromophenyl-phenyl Ether	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
4-Chloro-3-methylphenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
4-Chloroaniline	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
4-Chlorophenyl-phenyl Ether	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
4-Methylphenol/ 3-Methylphenol	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
4-Nitroaniline	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
4-Nitrophenol	< 3.0	< 5.8	< 6.0	< 5.8	< 6.0	< 5.8
Acenaphthene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Acenaphthylene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Anthracene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(a)anthracene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(a)pyrene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(b)fluoranthene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(g,h,i)perylene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Benzo(k)fluoranthene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Benzoic Acid	< 4.4	< 4.3	< 4.5	< 4.3	< 4.5	< 4.3
bis(2-Chloroethoxy) Methane	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
bis(2-Chloroethyl) Ether	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
bis(2-Chloroisopropyl) Ether	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14

Table 5a: Air Samples - Semi-Volatile Organic Compounds (SVOCs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg/m^3)

Results file number	1604072	1604154	1604154	1604154	1604100	1604100
Location	Control	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/1/2016	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
bis(2-Ethylhexyl)phthalate	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
Butylbenzylphthalate	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
Chrysene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Dibenz(a,h)anthracene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Dibenzofuran	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Diethylphthalate	< 0.74	**0.46 J**	< 0.76	< 0.72	< 0.75	< 0.72
Dimethylphthalate	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
di-n-Butylphthalate	**0.38 J**	**0.49 J**	< 0.76	< 0.72	**0.43 J**	< 0.72
Di-n-Octylphthalate	< 0.74	< 0.72	< 0.76	< 0.72	< 0.75	< 0.72
Fluoranthene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Fluorene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorobenzene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorobutadiene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Hexachlorocyclopentadiene	< 3.0	< 2.9	< 3.0	< 2.9	< 3.0	< 2.9
Hexachloroethane	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Indeno(1,2,3-c,d)pyrene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Isophorone	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
Naphthalene	**0.83**	**0.11 J**	**0.072 J**	< 0.14	**0.098 J**	**0.047 J**
Nitrobenzene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
N-Nitroso-di-n-propylamine	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14
N-Nitrosodiphenylamine	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
Pentachlorophenol	< 3.0	< 12	< 12	< 12	< 12	< 12
Phenanthrene	**0.015 J**	< 0.14	< 0.15	< 0.14	**0.030 J**	< 0.14
Phenol	**0.57 J**	**0.74**	< 0.76	< 0.72	**1.1**	< 0.72
Pyrene	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.14

Notes:

J: Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Res: Residence

Ctrl: Control

Ext: Exterior (outdoors)

Dup: Duplicate sample

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1604018	1604101	1604101	1604100	1604101	1604101
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-						**3.7**	
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene							
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3	**3.3**						
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-						**2.2**	
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**3.2**		**3.9**	**4**	**4.6**	**4.6**	**5**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-			**6.6**	**6.6**			
2-Propenoic acid, 2-ethylhexyl ester	**1.9**		**2.3**		**1.5**	**2**	
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1604018	1604101	1604101	1604100	1604101	1604101
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester						**3.7**	
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde						**1.8**	
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-				**2.4**	**1**		
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester					**1.4**	**3**	
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1604018	1604101	1604101	1604100	1604101	1604101
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-	**1.9**						
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl				**4.5**		**1.8**	**5.4**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**23**		**15**	**15**	**7.1**		**6.2**
Cyclotetrasiloxane, octamethyl-							
Decanal	**2.1**				**1**		
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-			**3.8**	**4.3**			
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-							
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1604018	1604101	1604101	1604100	1604101	1604101
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**7.3**		**5.1**	**4**	**1.7**		**3.9**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							**5.8**
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal	**1.8**						
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth			**12**				

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1604018	1604101	1604101	1604100	1604101	1604101
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-			**3.5**	**3.2**	**9.5**		**2.6**
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	**1.3**		**3.7**	**4**	**16**		**3.7**
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.2**		**2.4**	**2.5**	**1.2**	**2.5**	**3.4**
Tetradecane						**2.8**	**3**
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-	**3.4**						
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604071	1604002	1604071	1604071	1604071	1604100-
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-			**1.7**				**4**
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene						**2**	
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4.9**	**3.4**	**5.2**	**3.9**	**3.9**	**4.4**	**4.5**
2-Propanol, 1-(2-methoxy-1-methylethoxy)		**1.2**					
2-Propanol, 1-(2-methoxypropoxy)-		**4.6**					
2-Propanol, 1-butoxy-						**3.8**	
2-Propenoic acid, 2-ethylhexyl ester	**2.2**	**2.3**		**2.4**	**2.3**	**2.2**	
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604071	1604002	1604071	1604071	1604071	1604100-
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							**2.4**
3-Pentanol, 2-methyl-				**1.7**			
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							**5.2**
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester		**4.5**					
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-	**1**						
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							**4.7**
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604071	1604002	1604071	1604071	1604071	1604100-
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t					**1.8**		
Cyclohexanol, 2-(1,1-dimethylethyl)-				**1.7**	**1.8**		
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl	**2.1**			**4.2**	**4.3**	**22**	**27**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**0.84**	**3**	**0.84**	**5.2**	**5.4**	**7.4**	**66**
Cyclotetrasiloxane, octamethyl-		**98**					
Decanal	**0.71**						
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene			**1.8**				
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-		**2.1**					
Ethanol, 2-(hexyloxy)-		**1.4**					**5.1**
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-			**1**				
Ethanol, 2-phenoxy-			**1**				
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							**7.9**
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal						**1.4**	
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604071	1604002	1604071	1604071	1604071	1604100-
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether			**0.84**				
Nonanal				**3.6**	**3.7**	**2.3**	**4.5**
Nonane				**1.9**	**1.9**		
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal	**0.63**			**1.4**	**1.4**		
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604071	1604002	1604071	1604071	1604071	1604100-
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	4/1/2016	3/30/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-			**12**				
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4			**18**				
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.5**	**2.2**	**2.9**	**2.6**	**2.6**	**2.8**	
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown	**1.1**					**2.2**	

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100-	1604019	1604019	1604018	1604072	1604018	1604101
Location	Res-Dup	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-	**4.1**	**1.1**					
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							**2.9**
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene							
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4.3**	**4.3**	**3.8**	**2.3**	**3.5**	**3.5**	**3.8**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-				**2.4**			
2-Propenoic acid, 2-ethylhexyl ester		**2.1**	**1.7**		**1.8**	**1.7**	
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100-	1604019	1604019	1604018	1604072	1604018	1604101
Location	Res-Dup	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-	**6.2**						
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							**71**
Adamantane, 1,3-dimethyl-						**1.7**	
Amylene Hydrate							**55**
Bacchotricuneatin c							
Benzaldehyde				**2.6**			
Benzene, (1-methylethyl)-						**3.2**	
Benzene, 1,2,3-trimethyl-						**2.2**	
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-						**2.1**	
Benzene, 2,4-diisocyanato-1-methyl-		**0.72**					
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl					**1.2**		
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100-	1604019	1604019	1604018	1604072	1604018	1604101
Location	Res-Dup	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl							**12**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**65**	**24**			**0.73**		**26**
Cyclotetrasiloxane, octamethyl-					**0.59**		
Decanal		**1.1**					
Decane						**4.3**	
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-				**3.8**			
Decane, 3-methyl-							
D-Limonene		**2.9**		**4.9**			
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-	**5.2**						
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-							**5.7**
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-	**7.9**						
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-				**3.8**			
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-				**6.5**			
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100-	1604019	1604019	1604018	1604072	1604018	1604101
Location	Res-Dup	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-		**1.2**					
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate					**1.7**		
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**4.4**	**2.4**		**2.3**	**1.6**		**5.9**
Nonane						**2.2**	
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-						**1.8**	
Nonane, 3-methyl-5-propyl-				**6**			
Nonanoic acid					**0.68**		
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-		**1.1**					
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100-	1604019	1604019	1604018	1604072	1604018	1604101
Location	Res-Dup	Residence	Res-Ext	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							**2.9**
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	**4.6**						
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**3.9**	**2**	**2**		**1.6**		
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane						**1.8**	
Undecane, 2,2-dimethyl-				**3.2**			
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604153	1603589	1604019	1604174	1604072	1604072
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016
.beta.-iso-Methyl ionone		**10**					
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-	**20**	**20**					
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-						**1.1**	
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene							
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3	**10**						
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-		**19**					
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-			**4.2**		**3.8**	**3.6**	**4.1**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester			**2.2**	**2.3**		**1.9**	**2.1**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604153	1603589	1604019	1604174	1604072	1604072
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016
3,5,5-Trimethylhexyl acetate	**9.4**						
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester	**12**	**13**					
Acetophenone							**1.5**
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-						**1.1**	**1.2**
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-			**2.5**				
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604153	1603589	1604019	1604174	1604072	1604072
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016
cis-3-Hexenyl-.alpha.-methylbutyrate				**2.1**			
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-	**15**	**15**					
Cyclohexanol, 5-methyl-2-(1-methylethyl)				**2.3**			
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-			**2.1**	**2.6**			
Cyclohexene, 1-methyl-4-(1-methylethenyl				**6.3**			
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-		**9.6**					
Cyclopentanecarboxylic acid, 6-ethyl-3-o					**3**		
Cyclopentasiloxane, decamethyl-	**88**	**89**		**3.5**	**6.8**	**1**	**1.2**
Cyclotetrasiloxane, octamethyl-			**2.5**				
Decanal							
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-					**2.6**		
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-					**6.5**		
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-				**3.7**		**1.1**	**1.3**
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol				**1.8**			
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal						**0.95**	
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604153	1603589	1604019	1604174	1604072	1604072
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016
Hexane, 2,2,5-trimethyl-					**8.2**		
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester	**20**	**21**					
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate	**17**	**17**					
Isopropyl Myristate							
Limonene					**10**		
Methyl salicylate			**4.2**	**3.2**			
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal			**2.4**	**3.2**			**2.1**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-			**12**				
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-					**6.5**		
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-					**6**		
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							**1**
Oxalic acid, neopentyl octyl ester	**18**						
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene						**1.9**	**1.8**
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester	**46**	**50**					
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604153	1603589	1604019	1604174	1604072	1604072
Location	Residence	Res-Dup	Residence	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	3/29/2016	3/31/2016	4/8/2016	4/1/2016	4/1/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4							
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene			**2.5**			**1.9**	**1.6**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane			**2.2**				
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-					**3.4**		
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604072	1604174	1604124	1604153	1604153	1603589	1604002
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-		**0.85**					
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-							
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-						**1.9**	
1R-.alpha.-Pinene							
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut						**8.1**	
2,5,8,11,14,17-Hexaoxaoctadecane			**5.4**				
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4**	**5.1**		**3.4**	**4**	**4.7**	**4.9**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester	**1.9**	**2.2**			**2.3**	**2**	**2.1**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-				**3.4**			

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604072	1604174	1604124	1604153	1604153	1603589	1604002
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic			**6.6**				
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-				**3.4**			
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-		**0.95**					
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-		**1.2**					
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol						**2.3**	**1.4**
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604072	1604174	1604124	1604153	1604153	1603589	1604002
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl		**1.9**	**8.1**	**13**	**1.9**	**3.1**	**2.3**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-		**2.2**	**37**	**8.9**	**3.1**		**5.1**
Cyclotetrasiloxane, octamethyl-					**24**		
Decanal					**2.5**		**1.7**
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-					**1.9**		
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-				**3.8**			
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-		**2.8**	**7.7**				
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							**1.3**
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-			**7.9**		**2.2**		
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-				**4**			
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604072	1604174	1604124	1604153	1604153	1603589	1604002
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
Hexane, 2,2,5-trimethyl-				**4.6**			
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-			**10**				
Isobornyl acetate			**10**				
Isopropyl Myristate						**1.8**	
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal		**1.2**		**3.3**	**2.8**	**2.3**	
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-			**7.1**				
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-				**5.5**			
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							**1.4**
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604072	1604174	1604124	1604153	1604153	1603589	1604002
Location	Res-Ext	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	4/8/2016	4/6/2016	4/6/2016	4/6/2016	3/29/2016	3/30/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4						**3.1**	
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**0.9**	**2.3**			**2.5**	**2.3**	**2.6**
Tetradecane							**1.2**
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane	**0.84**						
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown			**6.5**				

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589	1604002
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/30/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-							**1.6**
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene	**1.3**						
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**5.3**	**3.6**	**3.4**	**5.1**	**4**	**5.3**	**3.7**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							**1.9**
2-Propenoic acid, 2-ethylhexyl ester	**2.4**	**1.6**	**1.5**	**2.1**	**1.7**	**2.4**	**2**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589	1604002
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/30/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi		**0.58**					
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester	**5.3**						
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde				**1**	**0.76**		**1.2**
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-						**1.5**	
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-			**0.41**				

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589	1604002
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/30/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-	**1.9**	**3.7**	**0.57**				
Cyclohexene, 1-methyl-4-(1-methylethenyl	**9.1**	**0.5**				**4.5**	**2.3**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**46**		**3.5**	**1.1**	**0.79**	**22**	**6.3**
Cyclotetrasiloxane, octamethyl-	**2.8**						
Decanal		**0.46**	**0.44**				**1.6**
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene			**0.46**				
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-				**1.5**	**1.3**	**1.6**	
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol						**4.8**	
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-		**0.96**	**0.9**				
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal	**1.7**						
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589	1604002
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/30/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate						**2.3**	
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal		**0.3**	**1.3**	**2.1**	**1.6**	**3.3**	
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal	**1.5**				**0.82**		**1.3**
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene				**1**			
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604019	1604002	1604002	1604002	1604002	1603589	1604002
Location	Residence	Residence	Res-Dup	Residence	Res-Dup	Residence	Residence
Date Sampled	3/31/2016	3/30/2016	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/30/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-				**1.1**			
Propanoic acid, 2-methyl-, 2-methylpropy					**0.9**		
Propanoic acid, 2-methyl-, 3-hydroxy-2,4		**0.41**		**1.1**	**0.97**		
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene		**2.2**	**1.9**	**3.9**	**2.6**	**3.1**	**1.8**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1604002	1603589	1603589	1604018	1604153
Location	Residence	Res-Ext	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-						**2.5**	
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex				**2.7**	**2.7**		
1-Hexanamine							
1-Hexanol, 2-ethyl-			**1.3**				
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene	**1.8**						**3.4**
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime	**2.1**						
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4.3**	**5**	**5**	**3.9**	**4**	**3.8**	**4**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-						**7.5**	
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester	**2.2**	**2.2**		**2.6**		**2.6**	
2-Propenoic acid, 6-methylheptyl ester							**2**
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1604002	1603589	1603589	1604018	1604153
Location	Residence	Res-Ext	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane			**2.2**				
4-Ketopimelic						**6.4**	
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-			**2.7**				
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde	**1.6**						
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							**1.9**
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1604002	1603589	1603589	1604018	1604153
Location	Residence	Res-Ext	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							**2.2**
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-			**1**			**3.7**	
Cyclohexene, 1-methyl-4-(1-methylethenyl				**2.6**	**5.1**		**5.6**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**5.3**		**1.4**	**8.4**	**9.2**	**34**	**7.3**
Cyclotetrasiloxane, octamethyl-				**10**	**12**	**4.9**	
Decanal							
Decane	**2.9**						**1.8**
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene			**1.6**				
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-				**4**	**4.3**		
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane					**2.7**		
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane				**2.1**	**2.8**		
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1604002	1603589	1603589	1604018	1604153
Location	Residence	Res-Ext	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate				**3.2**	**3.3**		
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**1.9**		**2.7**				**1.8**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal			**1**				
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester						**4.6**	
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1604002	1603589	1603589	1604018	1604153
Location	Residence	Res-Ext	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	3/30/2016	3/29/2016	3/29/2016	3/31/2016	4/6/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	**1.9**						
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.2**	**2.7**	**2.6**				**2.3**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth						**2.5**	
Triacetin							
Tridecane				**2.9**	**3.3**		
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604173	1604018	1604002	1604071	1604002	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/8/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016	3/30/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-							**0.63**
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate			**0.85**				
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene	**7.4**		**0.96**				
2(3H)-Furanone, 5-heptyldihydro-				**0.81**			
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4.1**	**3.8**	**4**	**1.4**	**4.1**	**4.8**	**3.9**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-					**0.82**		
2-Propenoic acid, 2-ethylhexyl ester		**2.7**	**2.3**	**2.1**	**2.3**	**2.6**	**1.7**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-		**9**					

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604173	1604018	1604002	1604071	1604002	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/8/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016	3/30/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile				**0.64**			
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate				**0.91**			
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							**0.6**
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone					**0.86**		
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-		**2**					
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-	**4.5**						
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-					**1.1**		
Benzoic acid, 2-ethylhexyl ester					**1.1**		
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene		**2.9**					
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester				**3.2**			
Camphene	**3.1**						
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604173	1604018	1604002	1604071	1604002	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/8/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016	3/30/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)						**0.6**	
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-			**1.2**				
Cyclohexene, 1-methyl-4-(1-methylethenyl	**11**		**1**		**2.3**		**1**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**3.4**	**1.7**	**12**		**4.8**	**7.9**	
Cyclotetrasiloxane, octamethyl-							
Decanal			**1.1**		**1**		
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene						**1.1**	
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-				**0.94**			
Ethanol, 2,2'-oxybis-						**1.7**	
Ethanol, 2-butoxy-							
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-		**2.8**					
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	**2.2**						
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal			**1.1**				
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604173	1604018	1604002	1604071	1604002	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/8/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016	3/30/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate	**2.9**						
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal		**3.2**				**1.2**	**0.89**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal					**0.73**		
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl		**3.2**					
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-	**2.6**						
Pentanedioic acid, dimethyl ester				**0.66**			
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604173	1604018	1604002	1604071	1604002	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/8/2016	3/31/2016	3/30/2016	4/1/2016	3/30/2016	3/30/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-				**2**			
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4							
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.4**	**2**	**2.4**	**0.75**	**2.4**	**1.7**	**2.3**
Tetradecane							**0.72**
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604100	1604018	1604100	1603589	1604070	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016	4/1/2016	3/30/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene						**2.7**	
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							**1.5**
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-							
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol						**1.5**	
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene	**7.7**			**1.4**			
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4**	**2.8**	**4.5**	**4.5**	**3.6**	**2.5**	**3.6**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester		**1.9**	**2.2**	**2.1**	**1.8**		**2.2**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604100	1604018	1604100	1603589	1604070	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016	4/1/2016	3/30/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-	**2.3**						**2.1**
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester						**2**	
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604100	1604018	1604100	1603589	1604070	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016	4/1/2016	3/30/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-		**5.5**					
Cyclohexanol, 5-methyl-2-(1-methylethyl)	**2.4**		**2.3**				
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-			**2.6**				
Cyclohexene, 1-methyl-4-(1-methylethenyl	**5.6**						**37**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**7.9**	**4.1**	**16**	**0.093**	**1.1**		**2.4**
Cyclotetrasiloxane, octamethyl-	**6**						
Decanal		**1.6**					
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene						**170**	
Dodecane					**0.78**		
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-						**14**	
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-					**0.86**	**9.7**	
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene						**11**	
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-				**2.1**			
Hexadecane							
Hexanal	**3.7**		**1.7**				
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604100	1604018	1604100	1603589	1604070	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016	4/1/2016	3/30/2016
Hexane, 2,2,5-trimethyl-				**1.5**			
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							**1.5**
Limonene							
Methyl salicylate			**1.9**				
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**7.4**	**3.5**	**2.6**	**1.5**	**0.83**		**4.3**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal	**2.2**	**1.6**	**1.4**				
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							**2.3**
o-Xylene						**9.6**	
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604153	1604100	1604018	1604100	1603589	1604070	1604002
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	4/4/2016	3/31/2016	4/4/2016	3/29/2016	4/1/2016	3/30/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4							
Propylene Carbonate							
p-Xylene						**44**	
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est				**1.2**			
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene		**1.5**	**2.6**	**2.2**			**2.3**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane					**0.59**		
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-		**3.6**					
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604124	1604101	1604018	1604018	1604018	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-	**19**						
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-			**1**	**2.1**	**1.5**		**5.7**
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene		**3.1**		**1.7**	**1.1**	**2.2**	
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-		**3.2**	**3.4**	**4.8**	**3.4**	**4.1**	**4.1**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-		**18**					
2-Propanol, 1-butoxy-	**12**						
2-Propenoic acid, 2-ethylhexyl ester			**1.1**	**2.2**	**1.6**	**1.8**	**1.9**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604124	1604101	1604018	1604018	1604018	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol			**5.3**				
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(						**1.7**	
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester						**3.6**	
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester		**63**					
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c	**17**						
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester				**2.6**	**2**		
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone		**4.1**					
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester			**1.5**				
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604124	1604101	1604018	1604018	1604018	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl	**42**	**4.6**			**1.3**	**19**	
Cyclohexene, 1-methyl-5-(1-methylethenyl							**1.3**
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-		**16**		**5**	**3.7**	**7.8**	
Cyclotetrasiloxane, octamethyl-							
Decanal						**1.8**	
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-	**8.6**						
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-			**1.6**				
Ethanol, 2-(hexyloxy)-		**10**					
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-			**2.1**				
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-	**35**						
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-	**10**						

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604124	1604101	1604018	1604018	1604018	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016
Hexane, 2,2,5-trimethyl-	**12**						
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol		**2.5**					
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**6.8**	**3**	**1.5**	**1.4**	**1**	**2.6**	**0.98**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-	**9.3**						
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604101	1604124	1604101	1604018	1604018	1604018	1604072
Location	Residence	Residence	Residence	Residence	Res-Dup	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	4/4/2016	3/31/2016	3/31/2016	3/31/2016	4/1/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-			**1.4**				
Propanoic acid, 2-methyl-, 2-methylpropy							**0.73**
Propanoic acid, 2-methyl-, 3-hydroxy-2,4						**1**	**0.95**
Propylene Carbonate							
p-Xylene				**1.4**			
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene			**2.2**	**2.2**	**1.7**		**0.83**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane				**1.4**	**1**		
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1603589	1603589	1604124	1604101	1604101	1604124	1604124
Location	Residence	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene				**1.2**			
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-							
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene						**0.61**	**0.89**
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4.7**	**5.3**	**5.2**	**3.8**	**4.8**	**3.4**	**5**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-			**3.4**				
2-Propenoic acid, 2-ethylhexyl ester	**2**	**2.3**		**2**	**2.1**	**1.5**	**2.1**
2-Propenoic acid, 6-methylheptyl ester			**2.2**				
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1603589	1603589	1604124	1604101	1604101	1604124	1604124
Location	Residence	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
3,5,5-Trimethylhexyl acetate			**8.2**				
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-			**4.4**				
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde	**1.4**						
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-			**1.8**				
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-					**0.96**		
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1603589	1603589	1604124	1604101	1604101	1604124	1604124
Location	Residence	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-	**1.4**						
Cyclohexene, 1-methyl-4-(1-methylethenyl			**9.5**	**4.7**			
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**120**		**4.4**	**1.6**		**7.1**	**9.9**
Cyclotetrasiloxane, octamethyl-	**1.2**					**1.5**	**2.2**
Decanal				**1.7**			**0.85**
Decane	**2.3**						
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-			**2.9**				
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1603589	1603589	1604124	1604101	1604101	1604124	1604124
Location	Residence	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate						**0.59**	
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**2**			**2.8**		**1**	**1.4**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1603589	1603589	1604124	1604101	1604101	1604124	1604124
Location	Residence	Res-Ext	Residence	Residence	Res-Ext	Residence	Res-Dup
Date Sampled	3/29/2016	3/29/2016	4/5/2016	4/4/2016	4/4/2016	4/6/2016	4/6/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-				**1.4**			
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4				**1.8**			
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.9**	**3**	**2.7**	**2.2**	**2.9**	**2.1**	**2.7**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane	**1.3**						
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100	1603589
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016	3/29/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							**1.2**
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate						**8.7**	
1,6-Octadien-3-ol, 3,7-dimethyl-						**13**	
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-	**1.2**						
1-Hexene, 3,4,5-trimethyl-			**4.2**				
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene							
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol			**1.4**				
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**5.2**	**4.2**	**3**	**4.7**	**3**		**4.4**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-					**1.5**		
2-Propenoic acid, 2-ethylhexyl ester	**2.2**	**2.3**	**2.1**	**2**	**1.9**		**2**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100	1603589
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016	3/29/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-						**8.8**	
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi					**2.6**		
7-Octen-2-ol, 2,6-dimethyl-						**14**	
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester						**42**	
Adamantane, 1,3-dimethyl-							
Amylene Hydrate						**44**	
Bacchotricuneatin c							
Benzaldehyde				**0.59**			
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-		**1**					
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100	1603589
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016	3/29/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)		**1.1**					
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-	**1.2**						
Cyclohexene, 1-methyl-4-(1-methylethenyl	**3.8**	**4.1**	**6.2**		**7.5**	**13**	**0.61**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-		**6.4**	**9.8**	**0.58**	**17**	**8.4**	**1.9**
Cyclotetrasiloxane, octamethyl-							
Decanal				**1.2**			
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-						**14**	
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-	**1.3**	**1.6**					
Ethanol, 2-phenoxy-		**1.7**					
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol						**7.7**	
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100	1603589
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016	3/29/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-			**1.9**				
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal		**2.1**	**1.6**	**1.8**	**3.5**		**1.2**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-	**2.5**						
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal				**0.78**			
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester					**1.3**		
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604154	1604002	1604154	1604100	1603589
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/29/2016	4/6/2016	3/30/2016	4/6/2016	4/4/2016	3/29/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4			**4**				
Propylene Carbonate					**1.6**		
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2**	**2.6**	**1.7**	**2.8**	**1.4**		**2.4**
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate	**1**						
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604158	1604019	1603589	1604124	1604072	1603589	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016	3/29/2016	4/1/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-							
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							**3.6**
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene		**1.2**					**3.8**
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**5.2**	**3.7**			**3.3**	**3.5**	**3.4**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester	**2.3**	**1.8**			**2.4**	**1.5**	
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604158	1604019	1603589	1604124	1604072	1603589	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016	3/29/2016	4/1/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							**3**
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							**2.8**
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester						**0.27**	
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604158	1604019	1603589	1604124	1604072	1603589	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016	3/29/2016	4/1/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							**4**
Cyclohexanol, 5-methyl-2-(1-methylethyl)		**1.6**					**2.9**
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl	**1.4**	**32**				**0.55**	**8.1**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**11**	**27**		**82**	**12**		**71**
Cyclotetrasiloxane, octamethyl-		**1.6**					**44**
Decanal	**1.4**						
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-				**16**			
D-Limonene					**2.4**		
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-				**12**			
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-	**2**	**3.8**			**2.6**		
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-				**5.9**			
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-					**3.7**		
Hexadecane							
Hexanal	**1.2**						
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604158	1604019	1603589	1604124	1604072	1603589	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016	3/29/2016	4/1/2016
Hexane, 2,2,5-trimethyl-				**21**			
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**3.7**	**3.2**		**8.2**		**0.72**	
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane				**6**			
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-				**11**			
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-					**3.5**		
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl					**3**		
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-						**1.2**	
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604158	1604019	1603589	1604124	1604072	1603589	1604072
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	3/31/2016	3/29/2016	4/6/2016	4/1/2016	3/29/2016	4/1/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4					**3.2**		
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.9**	**2.2**				**1.9**	
Tetradecane							
Tetradecane, 2,2-dimethyl-				**11**	**2.9**		
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane	**2.5**						
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-				**12**			
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1603589	1604100	1604153	1604153	1604124
Location	Residence	Residence	Residence	Residence	Residence	Res-Ext	Residence
Date Sampled	3/30/2016	3/30/2016	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine		**1.9**					
1-Hexanol, 2-ethyl-					**3**		
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene							
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							**1.8**
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**11**	**4.6**		**4.3**	**4.3**	**4.3**	**2**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-					**3.5**		
2-Propenoic acid, 2-ethylhexyl ester	**1.8**		**2.9**	**2.1**		**1.8**	**1.7**
2-Propenoic acid, 6-methylheptyl ester		**2.1**					
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1603589	1604100	1604153	1604153	1604124
Location	Residence	Residence	Residence	Residence	Residence	Res-Ext	Residence
Date Sampled	3/30/2016	3/30/2016	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone			**8**				
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi		**2.6**					
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-			**2.9**		**3.9**		
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-						**1**	
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1603589	1604100	1604153	1604153	1604124
Location	Residence	Residence	Residence	Residence	Residence	Res-Ext	Residence
Date Sampled	3/30/2016	3/30/2016	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone			**4**				
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl		**5.4**	**30**	**6.1**	**12**		**1.2**
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**4.8**	**10**		**3.8**	**16**		**3.6**
Cyclotetrasiloxane, octamethyl-							
Decanal							
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-				**2**			
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-					**3.9**		
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane				**2.4**			
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1603589	1604100	1604153	1604153	1604124
Location	Residence	Residence	Residence	Residence	Residence	Res-Ext	Residence
Date Sampled	3/30/2016	3/30/2016	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							**1.1**
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**1.5**	**2.4**	**3.2**	**3.1**	**3.6**		**2.5**
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-			**3**				
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-			**4.3**				
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-			**10**				
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-				**4.5**			
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-		**4.5**					
Phthalic acid, 2-ethylhexyl propyl ester		**2.1**					
Propanoic acid, 2-methyl-, 1-(1,1-dimeth			**11**				

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604002	1604002	1603589	1604100	1604153	1604153	1604124
Location	Residence	Residence	Residence	Residence	Residence	Res-Ext	Residence
Date Sampled	3/30/2016	3/30/2016	3/29/2016	4/4/2016	4/6/2016	4/6/2016	4/5/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-					**31**		
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4					**40**		
Propylene Carbonate							
p-Xylene	**1.7**						
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**6**	**2.7**				**2.5**	**1**
Tetradecane				**2.1**			**1.4**
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							**0.98**
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-				**3.1**			
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604071	1604019	1604124	1604124	1604019
Location	Res-Ext	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/5/2016	3/29/2016	4/1/2016	3/31/2016	4/5/2016	4/5/2016	3/31/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-			**1.1**	**1.4**	**2.4**		
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene				**1.1**			
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							**3.1**
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**4.2**		**3.5**	**4.8**	**4.9**	**5.3**	**2.8**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester	**1.8**	**2.6**	**1.8**	**2.2**		**2.4**	
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604071	1604019	1604124	1604124	1604019
Location	Res-Ext	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/5/2016	3/29/2016	4/1/2016	3/31/2016	4/5/2016	4/5/2016	3/31/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-		**1.6**					
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde			**1.2**				
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604071	1604019	1604124	1604124	1604019
Location	Res-Ext	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/5/2016	3/29/2016	4/1/2016	3/31/2016	4/5/2016	4/5/2016	3/31/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl			**3.2**		**3.2**	**3.1**	
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-		**16**	**2.4**	**5**	**33**	**32**	
Cyclotetrasiloxane, octamethyl-							
Decanal		**2**		**1.8**			
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane			**1.6**				
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-					**4.8**	**4.9**	
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-					**3.2**	**2.8**	
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							**11**
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604071	1604019	1604124	1604124	1604019
Location	Res-Ext	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/5/2016	3/29/2016	4/1/2016	3/31/2016	4/5/2016	4/5/2016	3/31/2016
Hexane, 2,2,5-trimethyl-							**13**
Hexane, 2,4,4-trimethyl-							**4.1**
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal		**2.1**	**1.6**	**2.7**	**7**	**5.8**	
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-		**1.5**					
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							**13**
Nonanoic acid							
Octadecane							
Octanal				**1.1**			
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							**4**
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							**9.7**
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604124	1603589	1604071	1604019	1604124	1604124	1604019
Location	Res-Ext	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	4/5/2016	3/29/2016	4/1/2016	3/31/2016	4/5/2016	4/5/2016	3/31/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4					**2.6**	**2.6**	
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**2.6**		**2.1**	**3.1**	**2.7**	**2.3**	
Tetradecane					**6.9**	**6.9**	
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin		**1.4**					
Tridecane			**2.2**				
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							**10**
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							**12**
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100	1604153	1604002	1603589	1603589	1604123	1604154
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							**5.4**
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl							**2.8**
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-							
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-		**2.8**					
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-		**2.4**					
1-Hexene, 3,4,5-trimethyl-							**2.9**
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene		**2**					**6.1**
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-						**3**	
2-Pentanone, 4-hydroxy-4-methyl-	**4**	**4.2**	**2.8**	**4**	**4.8**	**1.8**	
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester	**2.1**		**2.2**		**2**	**1.7**	
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100	1604153	1604002	1603589	1603589	1604123	1604154
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate	**2.4**						
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester	**26**					**1.3**	
Adamantane, 1,3-dimethyl-							
Amylene Hydrate	**32**						
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-					**1**	**0.87**	
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-							
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol							
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							**2.6**
Butanedioic acid, methyl-, bis(1-methylp							**5.8**
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100	1604153	1604002	1603589	1603589	1604123	1604154
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-				**5.2**			
Cyclohexanol, 5-methyl-2-(1-methylethyl)		**3.6**					
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-				**6.6**			
Cyclohexene, 1-methyl-4-(1-methylethenyl					**0.96**	**6.1**	
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**1.7**	**3.2**	**1.1**	**4.5**	**1.1**	**2.5**	**18**
Cyclotetrasiloxane, octamethyl-							
Decanal			**0.65**				
Decane							
Decane, 2,2-dimethyl-							
Decane, 3,7-dimethyl-							
Decane, 3-methyl-				**8.3**			
D-Limonene		**2.3**					
Dodecane						**2.7**	
Dodecane, 2,2,11,11-tetramethyl-				**7**			
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							**2.4**
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-							
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-					**0.79**		
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal					**1.1**		
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100	1604153	1604002	1603589	1603589	1604123	1604154
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016
Hexane, 2,2,5-trimethyl-							
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester	**4.2**						
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate			**2.2**				
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal	**1.7**	**3.8**			**1.3**	**1.6**	
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-				**5.5**			
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid			**0.71**				
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e			**0.61**				
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester	**16**						
Pentasiloxane, dodecamethyl-							**3.3**
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604100	1604153	1604002	1603589	1603589	1604123	1604154
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/4/2016	4/6/2016	3/30/2016	3/29/2016	3/29/2016	4/5/2016	4/6/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-		**28**					
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4		**40**					**3**
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester				**3.4**			
Tetrachloroethylene	**2.2**		**1.6**		**3.1**	**0.91**	
Tetradecane							
Tetradecane, 2,2-dimethyl-							
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-				**3.4**			
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-				**3.1**			
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604173	1604157	1604157	1604157	1604156	1604156
Location	Res-Dup	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate							
1,2-Benzenedicarboxylic acid, butyl cycl	**3.1**						
1,3-Benzenediamine, 4-methyl-			**3**				**1.7**
1,3-Benzenediamine, 4-methyl-					**4.6**		
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-						**4.5**	**4.7**
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione							
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene	**7**						
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut							
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-			**19**	**23**	**21**	**14**	**13**
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester	**2.2**		**8**	**9.5**	**8.8**	**5.9**	**5.8**
2-Propenoic acid, 6-methylheptyl ester							
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604173	1604157	1604157	1604157	1604156	1604156
Location	Res-Dup	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate							
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi							
7-Octen-2-ol, 2,6-dimethyl-							
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde							
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-							
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-			**2.9**			**2**	**2.2**
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester							
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol						**8.8**	**9.6**
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp	**6.6**						
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604173	1604157	1604157	1604157	1604156	1604156
Location	Res-Dup	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl							
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-	**21**	**35**					
Cyclotetrasiloxane, octamethyl-							
Decanal							
Decane							
Decane, 2,2-dimethyl-		**14**					
Decane, 3,7-dimethyl-		**11**					
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-	**2.4**				**18**		
Ethanol, 2-(hexyloxy)-							
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-					**2.5**		
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-							
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-		**24**					
Heptane, 4-ethyl-2,2,6,6-tetramethyl-		**12**					
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal							
Hexane, 2,2,4-trimethyl-							
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604173	1604157	1604157	1604157	1604156	1604156
Location	Res-Dup	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
Hexane, 2,2,5-trimethyl-		**22**					
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene	**5.7**	**9.8**					
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal							
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-							
Nonane, 2-methyl-5-propyl-		**19**					
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							
Octane, 2,6-dimethyl-							
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene							
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-	**3.8**						
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604173	1604157	1604157	1604157	1604156	1604156
Location	Res-Dup	Residence	School	School-Ext	School	School	School-Dup
Date Sampled	4/6/2016	4/8/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-	**3.2**				**12**		
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	**3.2**				**14**	**4**	**4.6**
Propylene Carbonate							
p-Xylene							
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,					**2.6**		
Sulfurous acid, 2-ethylhexyl hexyl ester		**13**					
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene			**9.8**	**12**	**11**	**7.6**	**4.8**
Tetradecane							
Tetradecane, 2,2-dimethyl-		**14**					
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane							
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124	1604072
Location	School	School	Control	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016	4/1/2016
.beta.-iso-Methyl ionone							
.beta.-Myrcene							
.beta.-Phellandrene							
1,2,3-Propanetriol, diacetate		**2.4**					
1,2-Benzenedicarboxylic acid, butyl cycl							
1,3-Benzenediamine, 4-methyl-							
1,3-Benzenediamine, 4-methyl-		**2**					
1,3-Butanediol							
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl							
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate							
1,6-Octadien-3-ol, 3,7-dimethyl-							
1,8-Nonanediol, 8-methyl-							
1-Decene							
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex							
1-Hexanamine							
1-Hexanol, 2-ethyl-	**6.5**			**0.76**			
1-Hexene, 3,4,5-trimethyl-							
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione					**5.7**		
1-Methoxy-2-propyl acetate							
1-Octanol							
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc							
1-Propanol, 2,2-dimethyl-							
1-Propanol, 2,2'-oxybis-							
1R-.alpha.-Pinene						**3.1**	
2(3H)-Furanone, 5-heptyldihydro-							
2,2,4,4-Tetramethyloctane							
2,2,4-Trimethyl-1,3-pentanediol diisobut						**2.3**	
2,5,8,11,14,17-Hexaoxaoctadecane							
2,5,8,11,14-Pentaoxapentadecane							
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3							
2-Butanone, oxime							
2-Cyclobutyl-2-propanol							
2-Furanmethanamine, tetrahydro-							
2-Hexanol, 2-methyl-							
2-Pentanol, 2,3-dimethyl-							
2-Pentanone, 4-hydroxy-4-methyl-	**17**	**17**	**4.3**	**5.2**		**3.3**	
2-Propanol, 1-(2-methoxy-1-methylethoxy)							
2-Propanol, 1-(2-methoxypropoxy)-							
2-Propanol, 1-butoxy-							
2-Propenoic acid, 2-ethylhexyl ester		**6.9**	**2.2**	**2.2**	**4**		
2-Propenoic acid, 6-methylheptyl ester	**7**						
2-Pyrrolidinone, 1-methyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124	1604072
Location	School	School	Control	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016	4/1/2016
3,5,5-Trimethylhexyl acetate							
3-Aminocrotononitrile							
3-Hydroxy-3-methyl-2-butanone							
3-Methoxy-3-methylbutanol							
3-Octanol, 3,7-dimethyl-							
3-Pentanol, 2-methyl-							
4-(Prop-2-enoyloxy)octane							
4-Ketopimelic							
4-Octene, 2,6-dimethyl-, [S-(Z)]-							
4-tert-Butylcyclohexyl acetate					**4.6**		
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi					**4.4**		
7-Octen-2-ol, 2,6-dimethyl-			**2.4**		**4.7**		
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(							
9,12-Tetradecadien-1-ol, acetate, (Z,E)-							
Acetic acid, butyl ester							
Acetic acid, phenylmethyl ester							
Acetophenone							
Acetoxyacetic acid, 4-nitrophenyl ester							
Adamantane, 1,3-dimethyl-							
Amylene Hydrate							
Bacchotricuneatin c							
Benzaldehyde			**3.8**				
Benzene, (1-methylethyl)-							
Benzene, 1,2,3-trimethyl-							
Benzene, 1,3-dimethyl-							
Benzene, 1-chloro-4-(trifluoromethyl)-							
Benzene, 1-methyl-2-(1-methylethyl)-						**2.7**	
Benzene, 1-methyl-3-(1-methylethyl)-							
Benzene, 1-methyl-3-propyl-							
Benzene, 2,4-diisocyanato-1-methyl-	**1.9**	**1.9**					
Benzene, 4-ethyl-1,2-dimethyl-							
Benzoic acid, 2-ethylhexyl ester					**17**	**73**	
Benzoic acid, 2-hydroxy-, 3-methylbutyl							
Benzophenone							
Benzyl Alcohol	**21**						
Bicyclo[4.2.0]octa-1,3,5-triene							
Butanedioic acid, bis(2-methylpropyl) es							
Butanedioic acid, methyl-, bis(1-methylp							
Butanoic acid, 3-methylbutyl ester							
Butanoic acid, butyl ester							
Camphene							
Carvone oxide, trans-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124	1604072
Location	School	School	Control	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016	4/1/2016
cis-3-Hexenyl-.alpha.-methylbutyrate							
Cyclohexanemethanol, .alpha.,.alpha.,4-t							
Cyclohexanol, 2-(1,1-dimethylethyl)-							
Cyclohexanol, 5-methyl-2-(1-methylethyl)							
Cyclohexanone							
Cyclohexasiloxane, dodecamethyl-							
Cyclohexene, 1-methyl-4-(1-methylethenyl			**3.7**		**16**	**4.8**	
Cyclohexene, 1-methyl-5-(1-methylethenyl							
Cyclopentane, 1,1,3,3-tetramethyl-							
Cyclopentanecarboxylic acid, 6-ethyl-3-o							
Cyclopentasiloxane, decamethyl-			**3.9**	**3.4**	**85**		
Cyclotetrasiloxane, octamethyl-							
Decanal							
Decane							
Decane, 2,2-dimethyl-							**11**
Decane, 3,7-dimethyl-							
Decane, 3-methyl-							
D-Limonene							
Dodecane							
Dodecane, 2,2,11,11-tetramethyl-							
Dodecane, 2,6,10-trimethyl-							
Dodecane, 2,6,11-trimethyl-							
Dodecane, 2,7,10-trimethyl-							
Ethanol, 2-(2-ethoxyethoxy)-							
Ethanol, 2-(hexyloxy)-						**7**	
Ethanol, 2,2'-oxybis-							
Ethanol, 2-butoxy-			**3.2**			**7**	
Ethanol, 2-phenoxy-							
Ethanone, 1-(octahydro-7a-methyl-1H-inde							
Ethylbenzene							
Eucalyptol							
Heneicosane							
Heptadecane							
Heptane, 2,2,4,6,6-pentamethyl-				**0.81**			
Heptane, 2,2,4-trimethyl-							
Heptane, 2,2-dimethyl-							
Heptane, 4-ethyl-2,2,6,6-tetramethyl-							**11**
Heptane, 5-ethyl-2,2,3-trimethyl-							
Hexadecane							
Hexanal				**0.81**			
Hexane, 2,2,4-trimethyl-							**8.7**
Hexane, 2,2,5,5-tetramethyl-							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124	1604072
Location	School	School	Control	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016	4/1/2016
Hexane, 2,2,5-trimethyl-							**19**
Hexane, 2,4,4-trimethyl-							
Hexane, 3,3,4-trimethyl-							
Hexane, 3,3-dimethyl-							**14**
Hexane, 3-methyl-							
Hexanedioic acid, dimethyl ester							
Hexylene Glycol							
Homosalate							
Hydrazine, 2-butyl-1,1-dimethyl-							
Isobornyl acetate							
Isopropyl Myristate							
Limonene							
Methyl salicylate							
Methyltris(trimethylsiloxy)silane							
n-Butyl ether							
Nonanal			**2.4**	**2**	**4.5**		
Nonane							
Nonane, 2,2,4,4,6,8,8-heptamethyl-						**4.4**	
Nonane, 2-methyl-5-propyl-							
Nonane, 3-methyl-							
Nonane, 3-methyl-5-propyl-							
Nonanoic acid							
Octadecane							
Octanal							
Octane, 2,4,6-trimethyl-							
Octane, 2,5,6-trimethyl-							**14**
Octane, 2,6-dimethyl-							**10**
Octane, 5-ethyl-2-methyl-							
Octanoic Acid							
Oxalic acid, neopentyl octyl ester							
Oxirane, [(1-methylethoxy)methyl]-							
Oxirane, dodecyl-							
o-Xylene				**0.9**			
Pentadecane, 7-methyl-							
Pentadecanoic acid, 14-methyl-, methyl e							
Pentafluoropropionic acid, 2-ethylhexyl							
Pentane, 2,2,4,4-tetramethyl-							
Pentane, 3-ethyl-2,2-dimethyl-							
Pentanedioic acid, dimethyl ester							
Pentasiloxane, dodecamethyl-							
Phthalic acid, 2-ethylhexyl propyl ester							
Propanoic acid, 2-methyl-, 1-(1,1-dimeth							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604156	1604156	1604071	1604002	1604071	1604124	1604072
Location	School	School	Control	Control	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/1/2016	3/30/2016	4/1/2016	4/6/2016	4/1/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-							
Propanoic acid, 2-methyl-, 2-methylpropy							
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	**2.1**					**2.6**	
Propylene Carbonate							
p-Xylene			**2.2**				
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,							
Sulfurous acid, 2-ethylhexyl hexyl ester							
Sulfurous acid, dodecyl 2-ethylhexyl est							
Sulfurous acid, hexyl tridecyl ester							
Tetrachloroethylene	**10**	**8.5**	**2.5**	**1.7**			
Tetradecane				**1.7**			
Tetradecane, 2,2-dimethyl-							**6.8**
Tetradecyl trifluoroacetate							
Tri(1,2-propyleneglycol), monomethyl eth							
Triacetin							
Tridecane							
Tridecane, 3-methyl-							
Trisiloxane, octamethyl-							
Undecane					**8.5**		
Undecane, 2,2-dimethyl-							
Undecane, 2,6-dimethyl-							
Undecane, 2,8-dimethyl-							**12**
Undecane, 2,9-dimethyl-							
Undecane, 3,3-dimethyl-							**13**
Undecane, 3-methylene-							
Undecane, 4,6-dimethyl-							
Undecane, 4,7-dimethyl-							
Unknown							

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604154	1604154	1604100	1604100
Location	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
.beta.-iso-Methyl ionone					
.beta.-Myrcene					
.beta.-Phellandrene					
1,2,3-Propanetriol, diacetate					
1,2-Benzenedicarboxylic acid, butyl cycl					
1,3-Benzenediamine, 4-methyl-					
1,3-Benzenediamine, 4-methyl-					
1,3-Butanediol					
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl					
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate					
1,6-Octadien-3-ol, 3,7-dimethyl-					
1,8-Nonanediol, 8-methyl-					
1-Decene					
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex					
1-Hexanamine					
1-Hexanol, 2-ethyl-					
1-Hexene, 3,4,5-trimethyl-					
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione					
1-Methoxy-2-propyl acetate					
1-Octanol					
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc					
1-Propanol, 2,2-dimethyl-					
1-Propanol, 2,2'-oxybis-					
1R-.alpha.-Pinene	**1.7**				
2(3H)-Furanone, 5-heptyldihydro-					
2,2,4,4-Tetramethyloctane					
2,2,4-Trimethyl-1,3-pentanediol diisobut				**2.4**	
2,5,8,11,14,17-Hexaoxaoctadecane					
2,5,8,11,14-Pentaoxapentadecane					
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3					
2-Butanone, oxime					
2-Cyclobutyl-2-propanol					
2-Furanmethanamine, tetrahydro-					
2-Hexanol, 2-methyl-					
2-Pentanol, 2,3-dimethyl-					
2-Pentanone, 4-hydroxy-4-methyl-	**2.9**	**5**	**4.3**	**3**	**4.3**
2-Propanol, 1-(2-methoxy-1-methylethoxy)					
2-Propanol, 1-(2-methoxypropoxy)-					
2-Propanol, 1-butoxy-					
2-Propenoic acid, 2-ethylhexyl ester	**1.8**	**2.2**		**2.6**	**1.9**
2-Propenoic acid, 6-methylheptyl ester			**1.8**		
2-Pyrrolidinone, 1-methyl-					

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604154	1604154	1604100	1604100
Location	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
3,5,5-Trimethylhexyl acetate					
3-Aminocrotononitrile					
3-Hydroxy-3-methyl-2-butanone					
3-Methoxy-3-methylbutanol					
3-Octanol, 3,7-dimethyl-					
3-Pentanol, 2-methyl-					
4-(Prop-2-enoyloxy)octane					
4-Ketopimelic					
4-Octene, 2,6-dimethyl-, [S-(Z)]-					
4-tert-Butylcyclohexyl acetate					
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi					
7-Octen-2-ol, 2,6-dimethyl-					
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(					
9,12-Tetradecadien-1-ol, acetate, (Z,E)-					
Acetic acid, butyl ester					
Acetic acid, phenylmethyl ester					
Acetophenone					
Acetoxyacetic acid, 4-nitrophenyl ester					
Adamantane, 1,3-dimethyl-					
Amylene Hydrate					
Bacchotricuneatin c					
Benzaldehyde					
Benzene, (1-methylethyl)-					
Benzene, 1,2,3-trimethyl-					
Benzene, 1,3-dimethyl-		**0.7**			
Benzene, 1-chloro-4-(trifluoromethyl)-					
Benzene, 1-methyl-2-(1-methylethyl)-					
Benzene, 1-methyl-3-(1-methylethyl)-					
Benzene, 1-methyl-3-propyl-					
Benzene, 2,4-diisocyanato-1-methyl-		**0.62**			
Benzene, 4-ethyl-1,2-dimethyl-					
Benzoic acid, 2-ethylhexyl ester					
Benzoic acid, 2-hydroxy-, 3-methylbutyl	**1.9**				
Benzophenone					
Benzyl Alcohol					
Bicyclo[4.2.0]octa-1,3,5-triene					
Butanedioic acid, bis(2-methylpropyl) es					
Butanedioic acid, methyl-, bis(1-methylp					
Butanoic acid, 3-methylbutyl ester					
Butanoic acid, butyl ester					
Camphene					
Carvone oxide, trans-					

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604154	1604154	1604100	1604100
Location	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
cis-3-Hexenyl-.alpha.-methylbutyrate					
Cyclohexanemethanol, .alpha.,.alpha.,4-t					
Cyclohexanol, 2-(1,1-dimethylethyl)-					
Cyclohexanol, 5-methyl-2-(1-methylethyl)					
Cyclohexanone					
Cyclohexasiloxane, dodecamethyl-				**5.8**	
Cyclohexene, 1-methyl-4-(1-methylethenyl	**4.8**			**8.1**	
Cyclohexene, 1-methyl-5-(1-methylethenyl					
Cyclopentane, 1,1,3,3-tetramethyl-					
Cyclopentanecarboxylic acid, 6-ethyl-3-o					
Cyclopentasiloxane, decamethyl-	**45**		**0.66**	**49**	
Cyclotetrasiloxane, octamethyl-					
Decanal					
Decane					
Decane, 2,2-dimethyl-					
Decane, 3,7-dimethyl-					
Decane, 3-methyl-					
D-Limonene					
Dodecane					
Dodecane, 2,2,11,11-tetramethyl-					
Dodecane, 2,6,10-trimethyl-					
Dodecane, 2,6,11-trimethyl-					
Dodecane, 2,7,10-trimethyl-					
Ethanol, 2-(2-ethoxyethoxy)-					
Ethanol, 2-(hexyloxy)-					
Ethanol, 2,2'-oxybis-					
Ethanol, 2-butoxy-					
Ethanol, 2-phenoxy-					
Ethanone, 1-(octahydro-7a-methyl-1H-inde					
Ethylbenzene					
Eucalyptol	**3.4**				
Heneicosane					
Heptadecane					
Heptane, 2,2,4,6,6-pentamethyl-					
Heptane, 2,2,4-trimethyl-					
Heptane, 2,2-dimethyl-					
Heptane, 4-ethyl-2,2,6,6-tetramethyl-					
Heptane, 5-ethyl-2,2,3-trimethyl-					
Hexadecane					
Hexanal					
Hexane, 2,2,4-trimethyl-					
Hexane, 2,2,5,5-tetramethyl-					

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604154	1604154	1604100	1604100
Location	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
Hexane, 2,2,5-trimethyl-					
Hexane, 2,4,4-trimethyl-					
Hexane, 3,3,4-trimethyl-					
Hexane, 3,3-dimethyl-					
Hexane, 3-methyl-					
Hexanedioic acid, dimethyl ester					
Hexylene Glycol					
Homosalate					
Hydrazine, 2-butyl-1,1-dimethyl-					
Isobornyl acetate					
Isopropyl Myristate					
Limonene					
Methyl salicylate					
Methyltris(trimethylsiloxy)silane				**2.4**	
n-Butyl ether					
Nonanal	**2.1**			**3.3**	
Nonane					
Nonane, 2,2,4,4,6,8,8-heptamethyl-					
Nonane, 2-methyl-5-propyl-					
Nonane, 3-methyl-					
Nonane, 3-methyl-5-propyl-					
Nonanoic acid					
Octadecane					
Octanal					
Octane, 2,4,6-trimethyl-					
Octane, 2,5,6-trimethyl-					
Octane, 2,6-dimethyl-					
Octane, 5-ethyl-2-methyl-					
Octanoic Acid					
Oxalic acid, neopentyl octyl ester					
Oxirane, [(1-methylethoxy)methyl]-					
Oxirane, dodecyl-					
o-Xylene	**2.1**				
Pentadecane, 7-methyl-					
Pentadecanoic acid, 14-methyl-, methyl e					
Pentafluoropropionic acid, 2-ethylhexyl					
Pentane, 2,2,4,4-tetramethyl-					
Pentane, 3-ethyl-2,2-dimethyl-					
Pentanedioic acid, dimethyl ester					
Pentasiloxane, dodecamethyl-					
Phthalic acid, 2-ethylhexyl propyl ester					
Propanoic acid, 2-methyl-, 1-(1,1-dimeth					

Table 5b: Air Samples - SVOCs, Tentatively Identified Compounds (TICs)

Analytical Method: EPA TO-13A; Units: micrograms per cubic meter (µg)

Results file number	1604154	1604154	1604154	1604100	1604100
Location	Control	Ctrl-Ext	Control	Control	Control-Ext
Date Sampled	4/6/2016	4/6/2016	4/6/2016	4/4/2016	4/4/2016
Propanoic acid, 2-methyl-, 2,2-dimethyl-					
Propanoic acid, 2-methyl-, 2-methylpropy					
Propanoic acid, 2-methyl-, 3-hydroxy-2,4				**2.7**	
Propylene Carbonate					
p-Xylene					
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,					
Sulfurous acid, 2-ethylhexyl hexyl ester					
Sulfurous acid, dodecyl 2-ethylhexyl est					
Sulfurous acid, hexyl tridecyl ester					
Tetrachloroethylene		**2.6**	**2.2**		**2.3**
Tetradecane					
Tetradecane, 2,2-dimethyl-					
Tetradecyl trifluoroacetate					
Tri(1,2-propyleneglycol), monomethyl eth					
Triacetin					
Tridecane					
Tridecane, 3-methyl-					
Trisiloxane, octamethyl-	**1.7**			**2.9**	
Undecane					
Undecane, 2,2-dimethyl-					
Undecane, 2,6-dimethyl-					
Undecane, 2,8-dimethyl-					
Undecane, 2,9-dimethyl-					
Undecane, 3,3-dimethyl-					
Undecane, 3-methylene-					
Undecane, 4,6-dimethyl-					
Undecane, 4,7-dimethyl-					
Unknown					

Notes:

TICs do not have a method detection limit and are an estimated concentration. Blank cells indicate analyte not detected.

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601768	P1601672	P1601736	P1601736	P1601736	P1601751	P1601736	P1601651
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	3/31/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/4/2016	3/30/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601714	P1601655	P1601714	P1601714	P1601714	P1601751	P1601751	P1601672
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Res-Dup	Residence
Date Sampled	4/1/2016	3/31/2016	4/1/2016	4/1/2016	4/1/2016	4/4/2016	4/4/2016	3/31/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	**10**	<7.8	**13**	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601672	P1601672	P1601714	P1601672	P1601750	P1601800	P1601800	P1601621
Location	Res-EXT	Residence	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	3/31/2016	3/31/2016	4/1/2016	3/31/2016	4/4/2016	4/6/2016	4/6/2016	03/29/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	**4.9**
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	**10**
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601621	P1601672	P1601839	P1601697	P1601697	P1601697	P1601839	P1601780
Location	Res-Dup	Residence	Residence	Residence	Res-Dup	Res-Ext	Residence	Residence
Date Sampled	03/29/2016	3/31/2016	4/7/2016	4/1/2016	4/1/2016	4/1/2016	4/7/2016	4/5/2016
Hydrogen Sulfide	**5.52**	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	**10.4**	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601808	P1601808	P1601634	P1601634	P1601651	P1601672	P1601651	P1601651
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence	Res-Dup
Date Sampled	4/6/2016	4/6/2016	03/29/2016	03/29/2016	3/30/2016	3/31/2016	3/30/2016	3/30/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601651	P1601651	P1601634	P1601672	P1601651	P1601651	P1601651	P1601634
Location	Residence	Res-Dup	Residence	Residence	Residence	Res-Ext	Residence	Residence
Date Sampled	3/30/2016	3/30/2016	03/29/2016	3/31/2016	3/30/2016	3/30/2016	3/30/2016	03/29/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601634	P1601672	P1601808	P1601750	P1601839	P1601686	P1601686	P1601655
Location	Res-Dup	Residence	Residence	Residence	Residence	Residence	Res-Dup	Residence
Date Sampled	03/29/2016	3/31/2016	4/6/2016	4/4/2016	4/7/2016	4/1/2016	4/1/2016	3/31/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601714	P1601655	P1601655	P1601655	P1601800	P1601750	P1601672	P1601750
Location	Residence	Residence	Blank	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	3/31/2016	3/31/2016	3/31/2016	4/6/2016	4/4/2016	3/31/2016	4/4/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601621	P1601697	P1601686	P1601686	P1601655	P1601750	P1601768	P1601750
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence	Residence
Date Sampled	03/29/2016	4/1/2016	4/1/2016	4/1/2016	3/31/2016	4/4/2016	4/5/2016	4/4/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601686	P1601686	P1601697	P1601634	P1601634	P1601768	P1601714	P1601655
Location	Residence	Residence	Residence	Residence	Res-Ext	Residence	Control	Control
Date Sampled	4/1/2016	4/1/2016	4/1/2016	03/29/2016	03/29/2016	4/5/2016	4/1/2016	3/31/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601750	P1601750	P1601714	P1601780	P1601780	P1601768	P1601839	P1601634
Location	Residence	Res-Ext	Control	Residence	Res-Dup	Residence	Residence	Residence
Date Sampled	4/4/2016	4/4/2016	4/1/2016	4/5/2016	4/5/2016	4/5/2016	4/7/2016	03/29/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	**11**	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601800	P1601655	P1601800	P1601751	P1601634	P1601800	P1601686	P1601621
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/6/2016	3/31/2016	4/6/2016	4/4/2016	03/29/2016	4/6/2016	4/1/2016	03/29/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<16
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<18
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<16
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<16
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<17
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<18
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<18
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<18
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<20
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<18
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<23
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<23
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601768	P1601697	P1601634	P1601651	P1601697	P1601655	P1601634	P1601736
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/5/2016	4/1/2016	03/29/2016	3/30/2016	4/1/2016	3/31/2016	03/29/2016	4/4/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601714	P1601808	P1601808	P1601768	P1601768	P1601621	P1601780	P1601780
Location	Residence	Residence	Res Ext	Residence	Res Ext	Residence	Res Dup	Residence
Date Sampled	4/1/2016	4/6/2016	4/6/2016	4/5/2016	4/5/2016	03/29/2016	4/5/2016	4/5/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<16	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<18	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<16	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<16	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<17	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<18	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<18	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<18	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<20	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<18	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<23	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<23	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601714	P1601621	P1601686	P1601780	P1601686	P1601750	P1601800	P1601655
Location	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
Date Sampled	4/1/2016	03/29/2016	4/1/2016	4/5/2016	4/1/2016	4/4/2016	4/6/2016	3/31/2016
Hydrogen Sulfide	<3.5	<7.0	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<16	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<18	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<16	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<16	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<17	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<18	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<18	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<18	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<20	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<18	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<23	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<23	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601621	P1601634	P1601780	P1601808	P1601808	P1601839	P1601839	P1601839
Location	Residence	Residence	Residence	Residence	Res Dup	Residence	School	School-Ext
Date Sampled	03/29/2016	03/29/2016	4/5/2016	4/6/2016	4/6/2016	4/7/2016	4/7/2016	4/7/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601839	P1601839	P1601839	P1601839	P1601839	P1601768	P1601768	P1601800
Location	School	School	School-Dup	School	School	Control	Control	Control
Date Sampled	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/7/2016	4/5/2016	4/5/2016	4/6/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12	<12	<12	<12

Table 6: Air Samples - Sulfur Compounds

Analytical Method: ASTM D5504-12; Units: micrograms per cubic meter (µg/m^3)

Results file number	P1601800	P1601808	P1601736	P1601736	P1601839
Location	Ctrl Ext	Control	Ctrl Ext	Control	Control
Date Sampled	4/6/2016	4/6/2016	4/4/2016	4/4/2016	4/7/2016
Hydrogen Sulfide	<3.5	<3.5	<3.5	<3.5	<3.5
Carbonyl Sulfide	<6.1	<6.1	<6.1	<6.1	<6.1
Methyl Mercaptan	<4.9	<4.9	<4.9	<4.9	<4.9
Ethyl Mercaptan	<6.4	<6.4	<6.4	<6.4	<6.4
Dimethyl Sulfide	<6.4	<6.4	<6.4	<6.4	<6.4
Carbon Disulfide	<7.8	<7.8	<7.8	<7.8	<7.8
Isopropyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8
tert-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2
n-Propyl Mercaptan	<7.8	<7.8	<7.8	<7.8	<7.8
Ethyl Methyl Sulfide	<7.8	<7.8	<7.8	<7.8	<7.8
Thiophene	<8.6	<8.6	<8.6	<8.6	<8.6
Isobutyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2
Diethyl Sulfide	<9.2	<9.2	<9.2	<9.2	<9.2
n-Butyl Mercaptan	<9.2	<9.2	<9.2	<9.2	<9.2
Dimethyl Disulfide	<9.6	<9.6	<9.6	<9.6	<9.6
3-Methylthiophene	<10	<10	<10	<10	<10
Tetrahydrothiophene	<9.0	<9.0	<9.0	<9.0	<9.0
2,5-Dimethylthiophene	<11	<11	<11	<11	<11
2-Ethylthiophene	<11	<11	<11	<11	<11
Diethyl Disulfide	<12	<12	<12	<12	<12

Notes:
Res: Residence
Ctrl: Control
Ext: Exterior (outdoors)
Dup: Duplicate sample

Table 7: Air Samples - Crystalline Silica

Analytical Method: NIOSH 7500; Units: milligrams per cubic meter (mg/m^3)

Results file number	L374220	L374220	L374220	L374220	L374220	L374220	L374220	L374220
Location	Residence	Residence	Residence	Res-Dup	Residence	Residence	Residence	Control
Date Sampled	4/6/2016	3/29/2016	3/3/2016	4/4/2016	3/29/2016	4/5/2016	4/1/206	4/6/2016
Quartz	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Cristobalite	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Tridymite	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070

Table 8: WELL SS-25 AREA SAMPLES

Results file number		16041366	16041366	16041366	16041366	16041366	16041366	16041366	16041366
Sample number		SS1-SS-1	SS25-SS-1	SS25-SS-2	SS25-SS-3	SS25-SS-4	SS25-SS-5	SS25-SS-5D	SS25-SS-6
Media:		Soil	Soil	Soil	Product	Soil/Product	Soil/Product	Soil/Product	Product
Date Sampled		4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016
METALS, EPA METHOD 6010B in mg/kg	Aluminum	7160	9870	8950	1910	4430	5610	7140	4370
	Antimony	< 0.147	< 0.152	< 0.145	< 0.154	< 0.142	< 0.145	< 0.151	< 0.150
	Arsenic	12.9	7.82	6.72	3.37	7.12	11.2	10.7	8.29
	Barium	254	224	179	593	4280	2070	1900	3060
	Beryllium	0.751	0.691	0.691	0.233 J	0.429	0.576	0.634	0.509
	Boron	14.2	6.47	6.59	14.4	10.2	15.2	16.1	15.6
	Cadmium	6.65	5.42	7.40	2.38	5.21	6.85	6.48	6.18
	Calcium	31000	7170	5640	9800	11900	22100	20900	15800
	Chromium	23.0	25.8	28.8	6.31	16.2	24.6	33.0	17.0
	Cobalt	8.88	9.54	8.20	3.33	5.85	7.85	8.83	5.96
	Copper	39.4	44.8	39.0	14.0	27.8	42.4	48.9	29.4
	Iron	20200	21800	19200	5670	13000	16800	19800	13000
	Lead	8.04	29.8	14.3	6.05	5.84	30.9	41.1	4.43
	Magnesium	3980 B	3900 B	3420 B	1420 B	2570 B	4690 B	4190 B	2650 B
	Manganese	296	320	324	101	202	251	255	195
	Mercury	0.138	0.0734 J	0.0435 J	0.0230 J	0.392	0.130	0.132	0.0371 J
	Molybdenum	13.2	14.8	14.6	4.19	9.72	13.5	16.6	11.8
	Nickel	78.5	74.3	81.1	37.5	57.5	79.0	88.0	69.6
	Phosphorus	1850	1980	1230	718	1460	2010	2060	1520
	Potassium	4050 B	3270 B	2750 B	1920 B	2680 B	3390 B	4240 B	2900 B
	Selenium	< 0.297	< 0.306	< 0.291	< 0.309	< 0.285	< 0.291	< 0.304	< 0.301
	Silicon	618	831	824	236	410	508	638	566
	Silver	< 0.0849	< 0.0875	< 0.0832	< 0.0884	< 0.0816	< 0.0832	< 0.0870	< 0.0861
	Sodium	465	260	277	431	659	1130	1260	725
	Strontium	139	62.3	50.8	99.9	141	202	222	195
	Sulfur, Total	103	244	185	1470	1810	1660	1410	1980
	Thallium	0.703 B,J	0.727 B,J	0.591 B,J	0.570 B,J	0.322 B,J	< 0.147	1.18 B	0.377 B,J
	Titanium	344	466	342	114	309	325	472	257
	Vanadium	99.7	110	116	30.6	67.5	91.9	104	78.1
	Zinc	156	139	122	49.2	128	153	187	95.4
TPH, EPA METHOD 8015B in mg/kg	C6	< 1.2	< 1.3	< 1.2	< 63	< 280	< 320	< 310	< 570
	C7	< 1.2	< 1.3	< 1.2	< 63	< 280	< 320	< 310	< 570
	C8	< 1.2	< 1.3	< 1.2	< 63	< 280	< 320	< 310	< 570
	C9-C10	< 1.2	< 1.3	< 1.2	< 63	< 280	< 320	< 310	< 570
	C11-C12	< 1.2	< 1.3	< 1.2	< 63	< 280	1200 J	< 310	< 570
	C13-C14	< 1.2	< 1.3	< 1.2	< 63	3400	12000	4100	650 J
	C15-C16	< 1.2	< 1.3	< 1.2	250	5900	13000	7100	5400
	C17-C18	< 1.2	1.6 J	< 1.2	1800	7300	15000	8900	12000
	C19-C20	< 1.2	2.1 J	< 1.2	2900	5800	11000	7200	13000
	C21-C22	< 1.2	2.3 J	< 1.2	1700	2100	4800	3400	6200
	C23-C24	< 1.2	2.0 J	< 1.2	720	1400	2400	1800	2900
	C25-C28	1.3 J	4.8 J	1.9 J	1000	1600	2900	2100	3400
	C29-C32	3.0 J	7.0	3.5 J	1500	2600	4500	3200	5200
	C33-C36	< 1.2	4.9 J	3.2 J	790	1300	2600	2100	2900
	C37-C40	< 1.2	< 1.3	< 1.2	310	< 280	950 J	1200 J	1100 J
	C41-C44	< 1.2	< 1.3	< 1.2	< 63	< 280	< 320	< 310	< 570
	C6-C44 Total	4.3 J	25	8.6	11000	31000	70000	41000	53000

Table 8: WELL SS-25 AREA SAMPLES

	Results file number	16041366	16041366	16041366	16041366	16041366	16041366	16041366	16041366
	Sample number	**SS1-SS-1**	**SS25-SS-1**	**SS25-SS-2**	**SS25-SS-3**	**SS25-SS-4**	**SS25-SS-5**	**SS25-SS-5D**	**SS25-SS-6**
	Media:	Soil	Soil	Soil	Product	Soil/Product	Soil/Product	Soil/Product	Product
	Date Sampled	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs), EPA METHOD 8270 in mg/kg	1,2,4-Trichlorobenzene	< 0.059	< 0.060	< 0.060	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	1,2-Dichlorobenzene	< 0.064	< 0.064	< 0.064	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	1,3-Dichlorobenzene	< 0.073	< 0.074	< 0.074	< 13	< 1.5	< 1.5	< 1.5	< 1.3
	1,4-Dichlorobenzene	< 0.075	< 0.076	< 0.076	< 14	< 1.5	< 1.5	< 1.5	< 1.4
	1-Methylnaphthalene	< 0.056	< 0.057	< 0.057	< 10	**15**	**49**	**13**	**3.8 J**
	2,4,5-Trichlorophenol	< 0.064	< 0.064	< 0.064	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	2,4,6-Trichlorophenol	< 0.077	< 0.077	< 0.077	< 14	< 1.5	< 1.5	< 1.5	< 1.4
	2,4-Dichlorophenol	< 0.058	< 0.058	< 0.058	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	2,4-Dimethylphenol	< 0.27	< 0.27	< 0.27	< 48	< 5.3	< 5.3	< 5.3	< 4.8
	2,4-Dinitrophenol	< 0.34	< 0.34	< 0.34	< 62	< 6.7	< 6.8	< 6.8	< 6.2
	2,4-Dinitrotoluene	< 0.067	< 0.067	< 0.067	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	2,6-Dichlorophenol	< 0.059	< 0.060	< 0.060	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	2,6-Dinitrotoluene	< 0.073	< 0.073	< 0.073	< 13	< 1.4	< 1.5	< 1.5	< 1.3
	2-Chloronaphthalene	< 0.059	< 0.059	< 0.059	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	2-Chlorophenol	< 0.067	< 0.067	< 0.067	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	2-Methylnaphthalene	< 0.060	< 0.061	< 0.061	< 11	**31**	**110**	**28**	**5.4 J**
	2-Methylphenol	< 0.087	< 0.087	< 0.087	< 16	< 1.7	< 1.7	< 1.7	< 1.6
	2-Nitroaniline	< 0.052	< 0.052	< 0.052	< 9.4	< 1.0	< 1.0	< 1.0	< 0.94
	2-Nitrophenol	< 0.067	< 0.068	< 0.068	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	3,3'-Dichlorobenzidine	< 0.36	< 0.37	< 0.37	< 66	< 7.2	< 7.3	< 7.3	< 6.6
	3/4-Methylphenol	< 0.16	< 0.16	< 0.16	< 30	< 3.2	< 3.3	< 3.3	< 3.0
	3-Nitroaniline	< 0.070	< 0.070	< 0.070	< 13	< 1.4	< 1.4	< 1.4	< 1.3
	4,6-Dinitro-2-Methylphenol	< 0.63	< 0.63	< 0.63	< 110	< 13	< 13	< 13	< 11
	4-Bromophenyl-Phenyl Ether	< 0.061	< 0.062	< 0.062	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	4-Chloro-3-Methylphenol	< 0.066	< 0.067	< 0.067	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	4-Chloroaniline	< 0.065	< 0.065	< 0.065	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	4-Chlorophenyl-Phenyl Ether	< 0.064	< 0.065	< 0.065	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	4-Nitroaniline	< 0.065	< 0.066	< 0.066	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	4-Nitrophenol	< 0.054	< 0.055	< 0.055	< 9.9	< 1.1	< 1.1	< 1.1	< 0.99
	Acenaphthene	< 0.063	< 0.064	< 0.064	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	Acenaphthylene	< 0.060	< 0.060	< 0.060	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	Aniline	< 0.060	< 0.060	< 0.060	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	Anthracene	< 0.063	< 0.063	< 0.063	< 11	< 1.3	< 1.3	< 1.3	< 1.1
	Azobenzene	< 0.054	< 0.054	< 0.054	< 9.8	< 1.1	< 1.1	< 1.1	< 0.98
	Benzidine	< 0.83	< 0.83	< 0.83	< 150	< 16	< 17	< 17	< 15
	Benzo (a) Anthracene	< 0.057	< 0.057	< 0.057	< 10	< 1.1	< 1.1	< 1.1	< 1.0
	Benzo (a) Pyrene	< 0.054	< 0.055	< 0.055	< 9.9	< 1.1	< 1.1	< 1.1	< 0.99
	Benzo (b) Fluoranthene	< 0.064	< 0.064	< 0.064	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	Benzo (g,h,i) Perylene	< 0.055	< 0.056	< 0.056	< 10	< 1.1	< 1.1	< 1.1	< 1.0
	Benzo (k) Fluoranthene	< 0.065	< 0.065	< 0.065	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	Benzoic Acid	< 0.50	< 0.50	< 0.50	< 90	< 9.9	< 9.9	< 9.9	< 9.0
	Benzyl Alcohol	< 0.066	< 0.066	< 0.066	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	Bis(2-Chloroethoxy) Methane	< 0.056	< 0.057	< 0.057	< 10	< 1.1	< 1.1	< 1.1	< 1.0
	Bis(2-Chloroethyl) Ether	< 0.41	< 0.41	< 0.41	< 74	< 8.1	< 8.1	< 8.1	< 7.4
	Bis(2-Chloroisopropyl) Ether	< 0.057	< 0.058	< 0.058	< 10	< 1.1	< 1.1	< 1.1	< 1.0
	Bis(2-Ethylhexyl) Phthalate	< 0.053	**0.22 J**	< 0.054	< 9.7	< 1.1	< 1.1	< 1.1	< 0.97
	Butyl Benzyl Phthalate	< 0.054	< 0.054	< 0.054	< 9.8	< 1.1	< 1.1	< 1.1	< 0.98
	Chrysene	< 0.064	< 0.065	< 0.065	< 12	< 1.3	< 1.3	< 1.3	**2.0 J**
	Dibenz (a,h) Anthracene	< 0.046	< 0.047	< 0.047	< 8.4	< 0.92	< 0.93	< 0.93	< 0.84
	Dibenzofuran	< 0.060	< 0.061	< 0.061	< 11	**2.8 J**	**6.9 J**	**3.1 J**	**2.1 J**
	Diethyl Phthalate	< 0.058	< 0.058	< 0.058	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	Dimethyl Phthalate	**0.13 J**	**0.16 J**	< 0.11	< 21	< 2.3	< 2.3	< 2.3	< 2.1
	Di-n-Butyl Phthalate	< 0.060	< 0.060	< 0.060	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	Di-n-Octyl Phthalate	< 0.10	< 0.10	< 0.10	< 18	< 2.0	< 2.0	< 2.0	< 1.8
	Fluoranthene	< 0.062	< 0.063	< 0.063	< 11	< 1.2	< 1.2	< 1.2	< 1.1
	Fluorene	< 0.063	< 0.064	< 0.064	< 12	**15**	**39**	**16**	**14**
	Hexachloro-1,3-Butadiene	< 0.063	< 0.064	< 0.064	< 11	< 1.3	< 1.3	< 1.3	< 1.1
	Hexachlorobenzene	< 0.067	< 0.067	< 0.067	< 12	< 1.3	< 1.3	< 1.3	< 1.2
	Hexachlorocyclopentadiene	< 0.50	< 0.51	< 0.51	< 92	< 10	< 10	< 10	< 9.2
	Hexachloroethane	< 0.078	< 0.079	< 0.079	< 14	< 1.6	< 1.6	< 1.6	< 1.4
	Indeno (1,2,3-c,d) Pyrene	< 0.053	< 0.054	< 0.054	< 9.7	< 1.1	< 1.1	< 1.1	< 0.97
	Isophorone	< 0.057	< 0.057	< 0.057	< 10	< 1.1	< 1.1	< 1.1	< 1.0
	Naphthalene	< 0.059	< 0.059	< 0.059	< 11	**3.5 J**	**10**	**1.9 J**	< 1.1
	Nitrobenzene	< 0.32	< 0.33	< 0.33	< 59	< 6.5	< 6.5	< 6.5	< 5.9
	N-Nitrosodimethylamine	< 0.047	< 0.047	< 0.047	< 8.6	< 0.94	< 0.94	< 0.94	< 0.86
	N-Nitroso-di-n-propylamine	< 0.084	< 0.084	< 0.084	< 15	< 1.7	< 1.7	< 1.7	< 1.5
	N-Nitrosodiphenylamine	< 0.14	< 0.14	< 0.14	< 25	< 2.7	< 2.7	< 2.7	< 2.5
	Pentachlorophenol	< 0.39	< 0.39	< 0.39	< 70	< 7.7	< 7.7	< 7.7	< 7.0
	Phenanthrene	< 0.069	< 0.069	< 0.069	**65 J**	**45**	**89**	**51**	**98**
	Phenol	< 0.048	< 0.048	< 0.048	< 8.7	< 0.95	< 0.96	< 0.96	< 0.87
	Pyrene	< 0.077	< 0.077	< 0.077	< 14	< 1.5	< 1.5	< 1.5	< 1.4
	Pyridine	< 0.055	< 0.055	< 0.055	< 10	< 1.1	< 1.1	< 1.1	< 1.0

Table 8: WELL SS-25 AREA SAMPLES

	Results file number	16041366	16041366	16041366	16041366	16041366	16041366	16041366	16041366
	Sample number	**SS1-SS-1**	**SS25-SS-1**	**SS25-SS-2**	**SS25-SS-3**	**SS25-SS-4**	**SS25-SS-5**	**SS25-SS-5D**	**SS25-SS-6**
	Media:	Soil	Soil	Soil	Product	Soil/Product	Soil/Product	Soil/Product	Product
	Date Sampled	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**	**4/20/2016**
VOLATILE ORGANIC COMPOUNDS (VOCs), EPA METHOD 8260B in µg/kg	1,1,1,2-Tetrachloroethane	< 0.27	< 0.21	< 0.24	< 15	< 13	< 12	< 170	< 47
	1,1,1-Trichloroethane	< 0.26	< 0.20	< 0.23	< 14	< 12	< 11	< 160	< 44
	1,1,2,2-Tetrachloroethane	< 0.40	< 0.31	< 0.35	< 21	< 19	< 18	< 250	< 68
	1,1,2-Trichloro-1,2,2-Trifluoroethane	< 0.40	< 0.31	< 0.35	< 22	< 19	< 18	< 250	< 69
	1,1,2-Trichloroethane	< 0.41	< 0.31	< 0.35	< 22	< 19	< 18	< 250	< 69
	1,1-Dichloroethane	< 0.24	< 0.19	< 0.21	< 13	< 11	< 11	< 150	< 41
	1,1-Dichloroethene	< 0.40	< 0.31	< 0.35	< 21	< 19	< 18	< 250	< 68
	1,1-Dichloropropene	< 0.38	< 0.29	< 0.33	< 20	< 18	< 17	< 230	< 64
	1,2,3-Trichlorobenzene	< 1.0	< 0.81	< 0.91	< 56	< 50	< 46	< 650	< 180
	1,2,3-Trichloropropane	< 0.95	< 0.73	< 0.83	< 51	< 45	< 42	< 590	< 160
	1,2,4-Trichlorobenzene	< 0.35	< 0.27	< 0.31	< 19	< 17	< 16	< 220	< 61
	1,2,4-Trimethylbenzene	< 0.67	< 0.52	< 0.59	< 36	**1200**	**850**	< 420	< 110
	1,2-Dibromo-3-Chloropropane	< 2.0	< 1.5	< 1.7	< 110	< 95	< 88	< 1200	< 340
	1,2-Dibromoethane	< 0.29	< 0.23	< 0.26	< 16	< 14	< 13	< 180	< 50
	1,2-Dichlorobenzene	< 0.26	< 0.20	< 0.23	< 14	< 12	< 12	< 160	< 45
	1,2-Dichloroethane	< 0.36	< 0.28	< 0.31	< 19	< 17	< 16	< 220	< 61
	1,2-Dichloropropane	< 0.50	< 0.39	< 0.44	< 27	< 24	< 22	< 310	< 86
	1,3,5-Trimethylbenzene	< 0.63	< 0.48	< 0.55	< 34	**440**	**320**	< 390	< 110
	1,3-Dichlorobenzene	< 0.20	< 0.16	< 0.18	< 11	< 9.6	< 8.9	< 130	< 34
	1,3-Dichloropropane	< 0.29	< 0.22	< 0.25	< 15	< 14	< 13	< 180	< 49
	1,4-Dichlorobenzene	< 0.25	< 0.20	< 0.22	< 14	< 12	< 11	< 160	< 43
	2,2-Dichloropropane	< 0.38	< 0.29	< 0.33	< 20	< 18	< 17	< 230	< 65
	2-Butanone	< 4.3	< 3.3	**5.2 J**	**900 J**	< 200	< 190	< 2700	< 740
	2-Chlorotoluene	< 0.26	< 0.20	< 0.23	< 14	< 13	< 12	< 160	< 45
	2-Hexanone	< 2.0	< 1.6	< 1.8	**140 J**	< 96	< 90	< 1300	< 340
	4-Chlorotoluene	< 0.24	< 0.19	< 0.21	< 13	< 12	< 11	< 150	< 42
	4-Methyl-2-Pentanone	< 4.9	< 3.8	< 4.3	< 260	< 230	< 220	< 3100	< 850
	Acetone	**34 J**	**36 J**	**75**	**4100**	**610 J**	< 320	< 4400	**3800 J**
	Benzene	**0.65 J**	**0.33 J**	**0.39 J**	< 8.0	< 7.1	< 6.6	< 92	< 25
	Bromobenzene	< 0.24	< 0.19	< 0.21	< 13	< 11	< 11	< 150	< 41
	Bromochloromethane	< 0.79	< 0.61	< 0.69	< 42	< 38	< 35	< 490	< 140
	Bromodichloromethane	< 0.27	< 0.21	< 0.23	< 14	< 13	< 12	< 170	< 46
	Bromoform	< 0.91	< 0.70	< 0.79	< 49	< 43	< 40	< 560	< 160
	Bromomethane	< 11	< 8.3	< 9.4	< 580	< 510	< 480	< 6700	< 1800
	c-1,2-Dichloroethene	< 0.32	< 0.25	< 0.28	< 17	< 15	< 14	< 200	< 55
	c-1,3-Dichloropropene	< 0.29	< 0.22	< 0.25	< 16	< 14	< 13	< 180	< 50
	Carbon Disulfide	< 0.35	< 0.27	< 0.31	< 19	< 17	< 16	< 220	< 60
	Carbon Tetrachloride	< 0.32	< 0.25	< 0.28	< 17	< 15	< 14	< 200	< 55
	Chlorobenzene	< 0.26	< 0.20	< 0.22	< 14	< 12	< 11	< 160	< 44
	Chloroethane	< 1.7	< 1.3	< 1.5	< 91	< 81	< 76	< 1100	< 290
	Chloroform	< 0.27	< 0.21	< 0.24	< 15	< 13	< 12	< 170	< 47
	Chloromethane	< 0.35	< 0.27	< 0.30	**130 J**	**29 J**	**35 J**	< 220	**140 J**
	Dibromochloromethane	< 0.65	< 0.50	< 0.57	< 35	< 31	< 29	< 400	< 110
	Dibromomethane	< 0.89	< 0.68	< 0.77	< 47	< 42	< 39	< 550	< 150
	Dichlorodifluoromethane	< 0.51	< 0.39	< 0.44	< 27	< 24	< 23	< 310	< 87
	Diisopropyl Ether (DIPE)	< 0.55	< 0.43	< 0.48	< 30	< 26	< 25	< 340	< 94
	Ethanol	< 96	< 74	< 84	< 5100	< 4500	< 4200	< 59000	< 16000
	Ethylbenzene	**5.5**	< 0.13	< 0.15	< 9.3	**94**	**29 J**	< 110	< 30
	Ethyl-t-Butyl Ether (ETBE)	< 0.58	< 0.45	< 0.51	< 31	< 28	< 26	< 360	< 99
	Gasoline Range Organics (C4-C12)	**120**	**44 J**	**47 J**	**7300**	**44000**	**36000**	**47000**	**22000**
	Isopropylbenzene	< 0.62	< 0.48	< 0.55	< 33	**44 J**	**32 J**	< 390	< 110
	Methylene Chloride	< 1.5	< 1.2	< 1.3	< 82	< 73	< 68	< 950	< 260
	Methyl-t-Butyl Ether (MTBE)	< 0.34	< 0.26	< 0.30	< 18	< 16	< 15	< 210	< 58
	Naphthalene	< 0.93	< 0.72	< 0.81	< 50	**9400**	**13000**	**5100 J**	**730 J**
	n-Butylbenzene	**0.27 J**	< 0.14	< 0.16	< 9.6	**330**	**330**	**150 J**	< 31
	n-Propylbenzene	**0.60 J**	< 0.44	< 0.50	< 31	**110**	**70 J**	< 360	< 98
	o-Xylene	< 0.64	< 0.49	< 0.56	< 34	**260**	**93**	< 400	< 110
	p/m-Xylene	**0.56 J**	< 0.24	< 0.27	< 16	**710**	**240**	< 190	< 52
	p-Isopropyltoluene	< 0.72	< 0.56	< 0.63	< 39	**130**	**120**	< 450	< 120
	sec-Butylbenzene	< 0.66	< 0.51	< 0.58	< 35	**66**	**53**	< 410	< 110
	Styrene	< 0.69	< 0.53	< 0.60	< 37	< 33	< 31	< 430	< 120
	t-1,2-Dichloroethene	< 0.58	< 0.45	< 0.51	< 31	< 28	< 26	< 360	< 99
	t-1,3-Dichloropropene	< 0.69	< 0.54	< 0.61	< 37	< 33	< 31	< 430	< 120
	Tert-Amyl-Methyl Ether (TAME)	< 0.40	< 0.31	< 0.35	< 22	< 19	< 18	< 250	< 69
	Tert-Butyl Alcohol (TBA)	< 5.9	< 4.6	< 5.2	< 320	< 280	< 260	< 3700	< 1000
	tert-Butylbenzene	< 0.17	< 0.13	< 0.15	< 9.2	< 8.2	< 7.7	< 110	< 30
	Tetrachloroethene	< 0.24	< 0.19	< 0.21	< 13	< 11	< 11	< 150	< 41
	Toluene	**4.4**	< 0.46	< 0.52	< 32	**95**	< 26	< 370	< 100
	Trichloroethene	< 0.34	< 0.27	< 0.30	< 18	< 16	< 15	< 210	< 59
	Trichlorofluoromethane	< 0.43	< 0.33	< 0.38	< 23	< 20	< 19	< 270	< 73
	Vinyl Acetate	< 5.4	< 4.2	< 4.7	< 290	< 260	< 240	< 3400	< 930
	Vinyl Chloride	< 0.58	< 0.44	< 0.50	< 31	< 27	< 26	< 360	< 98

Notes: B: Analyte was present in the associated method blank µg/kg: micrograms per kilogram; mg/kg: milligrams per kilogram

J: Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Table does not include TICs for SVOCs, see lab report "16-04-1366_s2" in Appendix D. See lab report "Equipment Blank" for equipment blank results

APPENDIX B

Summary Tables of Laboratory Analytical Results

Leighton

Table A
Wipe Sample Results in Porter Ranch Community Compared to Comparison Group

Analyte	Porter Ranch Area Mean (µg/m^3)	Comparison Group Mean (µg/m^3)	Porter Ranch Area Results Higher than Comparison
aluminum	2.17	1.41	**Yes**
barium	0.06	0.03	**Yes**
bis(2-ethylhexyl) phthalate	0.23	0.21	**Yes**
iron	3.43	0 (ND)	**Yes**
manganese	0.07	0.04	**Yes**
nickel	0.01	0 (ND)	**Yes**
strontium	0.03	0.04	No
total hydrocarbons	0.64	0 (ND)	**Yes**
vanadium	0.01	0 (ND)	**Yes**

Notes

1. Only analytes detected in 5% or more of the Porter Ranch community homes are shown, tentatively identified compounds (TICs) are not included
2. Statistical analysis determining percent detected (5% or greater) and mean performed by UCLA staff
3. The mean was calculated including non-detects at ½ of the laboratory method detection limit (MDL)
4. ND - not detected, mean was calculated utilizing half of the MDL
6. Data validation and review still in progress as of date of report

Table B
Air Sample Results in Porter Ranch Community Compared to Comparison Group

Analyte	Porter Ranch Area Mean (µg/m^3)	Comparison Group Mean (µg/m^3)	Porter Ranch Area Results Higher than Control	Background Range[a] (µg/m3)
1,1,1-trichloroethane (tca)	0.21	0.64	No	<RL-5.9
1,1,2-trichlorotrifluoroethane	0.49	0.54	No	na
1,2-dichloroethane	0.81	0.81	No	<RL (0.8-2.0)
1,2,4-trimethylbenzene	0.81	1.34	No	na
1,3,5-trimethylbenzene	0.52	0.55	No	na
1,4-dichlorobenzene	16.74	0.77	**Yes**	na
2-butanone (mek)	4.56	10.06	No	na
2-hexanone	0.48	0.47	**Yes**	na
2-methylnaphthalene	0.12	0.12	No	na
2-propanol (isopropyl alcohol)	31.17	32.27	No	na
4-ethyltoluene	0.52	0.53	No	na
4-methyl-2-pentanone	0.64	0.66	No	na
acenaphthene	0.11	0.07	**Yes**	na
acetone	100.33	51.20	**Yes**	na
acetonitrile	0.92	0.52	**Yes**	na
acrolein	2.68	3.51	No	na
acrylonitrile	0.54	0.49	**Yes**	na
alpha-pinene	3.28	4.30	No	na
benzene	1.10	1.69	No	<RL-4.7
bromodichloromethane	0.11	0.15	No	na
bromoform	0.47	0.69	No	na
carbon disulfide	5.05	6.20	No	na
carbon tetrachloride	0.46	0.53	No	<RL-0.68
chloroform	0.36	0.73	No	<RL-2.4
chloromethane	0.54	0.66	No	na
cyclohexane	1.26	1.63	No	na
d-limonene	15.74	24.23	No	na
di-n-butylphthalate	0.48	0.32	**Yes**	na
dibromochloromethane	0.15	0.19	No	na
dichlorodifluoromethane (cfc 12)	2.14	2.12	**Yes**	na
dichloromethane (methylene chloride)[b]	107.06	118.90	No	0.68-61
diethylphthalate	0.57	0.35	**Yes**	na
dimethylphthalate	0.57	0.37 (ND)	**Yes**	na
ethanol	268.38	363.60	No	na
ethyl acetate	17.80	16.70	**Yes**	na
ethylbenzene	1.08	1.34	No	1-3.7
isophorone	0.13	0.08	**Yes**	na
isopropylbenzene (cumene)	16.06	3.39	**Yes**	na
m,p-xylenes	3.17	4.15	No	1.5-14
n-butyl acetate	1.73	2.13	No	na
n-heptane	0.99	1.54	No	na
n-hexane	0.88	2.93	No	na
n-nonane	0.71	1.55	No	na
n-octane	0.60	0.83	No	na
n-propylbenzene	0.50	0.48	**Yes**	na
naphthalene	0.58	0.69	No	na
o-xylene	1.00	1.67	No	1.1-3.6
phenanthrene	0.10	0.03	**Yes**	na
phenol	1.16	0.80	**Yes**	na
propene	12.98	11.82	**Yes**	na
styrene	0.60	1.08	No	na
tetrachloroethene	0.38	0.55	No	<RL-2.2
tetrahydrofuran (thf)	2.15	3.20	No	na
toluene	4.73	7.10	No	4.8-24

Table B
Air Sample Results in Porter Ranch Community Compared to Comparison Group

Analyte	Porter Ranch Area Mean (µg/m^3)	Comparison Group Mean (µg/m^3)	Porter Ranch Area Results Higher than Control	Background Range[a] (µg/m3)
total dust	0.02	0.03	No	na
trichloroethene (tce)	0.12	0.28	No	<RL-1.1
trichlorofluoromethane (cfc 11)	1.17	1.25	No	na
vinyl acetate	4.75	4.82	No	na

Notes

1. Only analytes detected in 5% or more of the Porter Ranch community homes are shown, tentatively identified compounds (TICs) are not included
2. Statistical analysis determining percent detected (5% or greater) and mean performed by UCLA staff
3. The mean was calculated including non-detects at ½ of the laboratory method detection limit (MDL)
4. ND - not detected, mean was calculated utilizing half of the MDL
5. [a] Table ES-1, Range of 50th%, *in* Background Indoor Air Concentrations of Volatile Organic Compounds in North American Residences (1990-2005): A Compilitaion of Statistics for Assessing Vapor Intrusion, USEPA, June 2011.
   RL indicates laboratory reporting limit (varied for different studies).
6. [b]Methylene Chloride is utilized to clean the sorbent tubes utilized for analysis of semi-volatile compounds and is temporarily off-gassed during sampling resulting in temporary higher than typical detections.
7. Data validation and review still in progress as of date of report.
8. "Yes" is an arithmetic comparison and not a statistically significant comparison

APPENDIX C

Representative Photographs of Sampling Procedures

Leighton

SITE PHOTOS

PHOTO NO. 1:
Typical view of collecting wipe and contact (Biotape™ or similar) samples obtained from indoor surfaces to assess the character and composition of particulates that may be present.

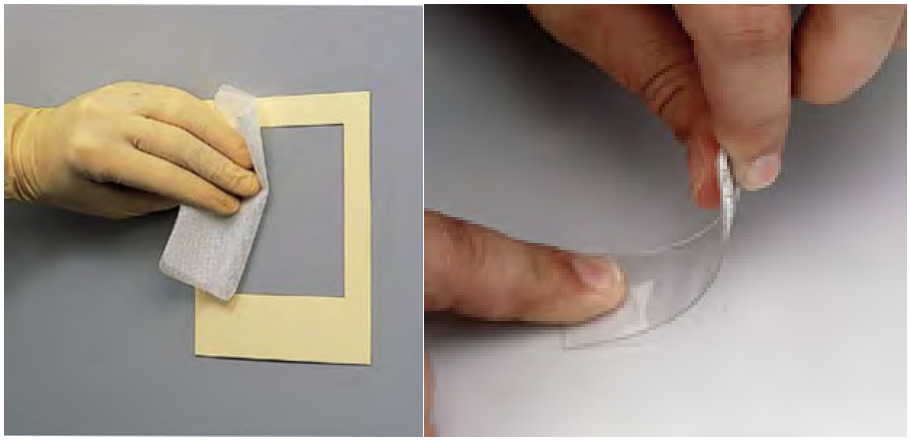
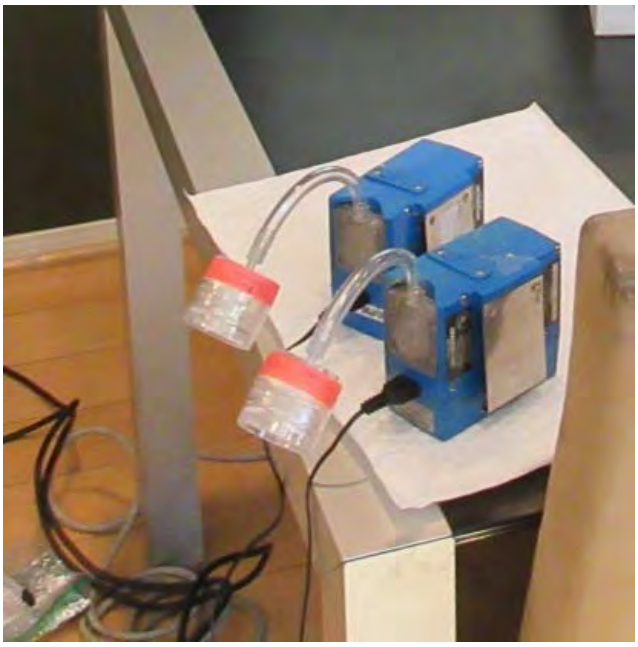


PHOTO NO. 2:
Typical view of sorbent tube sampling for analysis of semi-volatile organic compounds (SVOCs) in air by EPA Method TO-13A.

SITE PHOTOS

PHOTO NO. 3:
Typical view of Summa Canister sampling for analysis of volatile organic compounds (VOCs) in air by EPA Method TO-15.

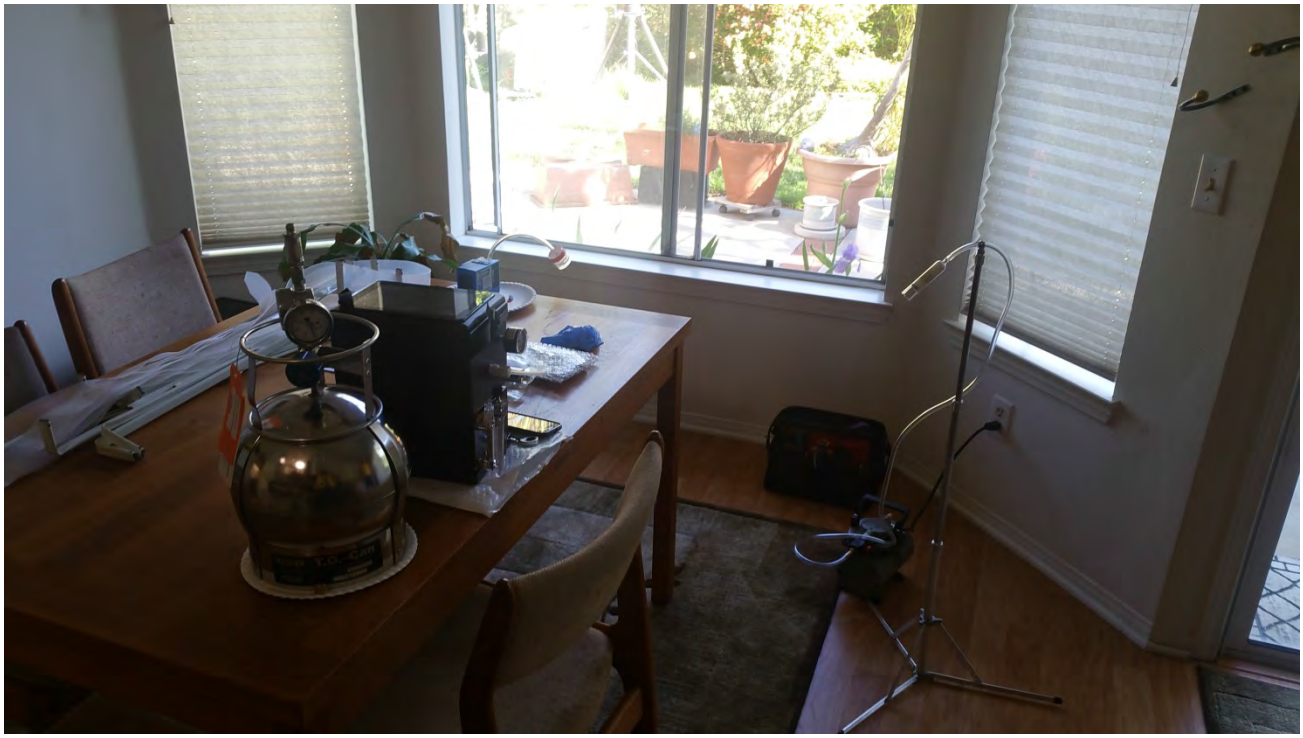
PHOTO NO. 4:
View of typical PVC cartridge sampling for analysis of metals and total dust in air by NIOSH Method 7300. This is an example of a side by side (i.e. duplicate) sample being collected for quality control purposes.



SITE PHOTOS

PHOTO NO. 5:
View of a Xitech vapor sampling box and a 1-liter Zefon Tedlar bag. The Tedlar bag was placed inside the sampling box and connected via tubing and was filled approximately 2/3 full for analysis of sulfur compounds by ASTM D5504-12.

PHOTO NO. 6:
View of a typical setup of the indoor air sampling equipment, including a sorbent tube with pump, summa canister, PVC cartridge with pump, and a vacuum box for Tedlar bag collection.



APPENDIX D

LABORATORY REPORTS

Leighton

Wipe Samples – Semi Volatile Organic Compounds (SVOCs)

Leighton

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WORK ORDER NUMBER: 16-03-1944

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-03-1944

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3 Tentatively Identified Compounds (TICs). 19

4 Quality Control Sample Data. 23
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5 Glossary of Terms and Qualifiers. 24

6 Chain-of-Custody/Sample Receipt Form. 25

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Work Order Narrative

Work Order: 16-03-1944 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1944.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1944-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 13:24**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	63	25-121	
Phenol-d6	64	24-113	
Nitrobenzene-d5	65	23-120	
2-Fluorobiphenyl	62	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1944
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	73	19-122	
p-Terphenyl-d14	68	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	16-03-1944-2-A	03/25/16 00:00	Wipe	GC/MS SS	03/26/16	03/27/16 13:43	160326L06

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	86	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1944
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1944-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 14:02**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	86	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1944
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	81	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	16-03-1944-4-A	03/25/16 00:00	Wipe	GC/MS SS	03/26/16	03/27/16 14:22	160326L06

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	74	25-121	
Phenol-d6	71	24-113	
Nitrobenzene-d5	78	23-120	
2-Fluorobiphenyl	73	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1944
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	76	19-122	
p-Terphenyl-d14	73	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-39**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 17:15**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1944
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	98	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR006.D
Acq On : 27 Mar 2016 1:24 pm
Operator : 923
Sample : 16-03-1944-1
Misc : 10UL S7-16-23
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,2-Benzenedica...	10.175	7.5	mg/l	782536	5	10.790	4155380	40.0

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR007.D
Acq On : 27 Mar 2016 1:43 pm
Operator : 923
Sample : 16-03-1944-2
Misc : 10UL S7-16-23
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR008.D
Acq On : 27 Mar 2016 2:02 pm
Operator : 923
Sample : 16-03-1944-3
Misc : 10UL S7-16-23
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR009.D
Acq On : 27 Mar 2016 2:22 pm
Operator : 923
Sample : 16-03-1944-4
Misc : 10UL S7-16-23
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1944
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-39	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:36**	**160326L06**
096-02-006-39	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:56**	**160326L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	168.6	84	178.5	89	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	172.6	86	182.9	91	23-134	4-152	6	0-40	
1,4-Dichlorobenzene	200.0	161.9	81	169.6	85	20-124	3-141	5	0-28	
N-Nitroso-di-n-propylamine	200.0	179.7	90	188.7	94	0-230	0-268	5	0-38	
1,2,4-Trichlorobenzene	200.0	168.9	84	176.8	88	44-142	28-158	5	0-28	
Naphthalene	200.0	159.4	80	167.3	84	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.5	87	184.2	92	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	177.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	163.3	82	172.2	86	33-145	14-164	5	0-20	
Acenaphthene	200.0	172.9	86	183.7	92	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	198.4	99	211.6	106	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	196.8	98	39-139	22-156	6	0-38	
Fluorene	200.0	163.1	82	174.1	87	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	183.0	92	199.0	99	14-176	0-203	8	0-20	
Pyrene	200.0	194.1	97	207.7	104	52-115	42-126	7	0-20	
Butyl Benzyl Phthalate	200.0	184.9	92	201.5	101	0-152	0-177	9	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1944 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1944**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: RC / kaj
	Project Location: Aliso Canyon	Date: 3/25/2016

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100 cm^2	Gauze Wipe	NW Bedroom - next to laundry rm. window sill	SVOC 8270
2		100 cm^2	Gauze wipe	N. side Living/Dining area upper window sill	SVOC 8270
3		100 cm^2	Gauze Wipe	N side Master Bedroom window sill	SVOC 8270
4		N/A	Gauze Wipe	Field Blank	SVOC 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1225	Received by:	Date: 3/25/16	Time: 1225
Relinquished by:	Date: 3/26/16	Time: 0900	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1944

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1945

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1945

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Work Order Narrative

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1945.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1945-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 14:41**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	7.8	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	58	25-121	
Phenol-d6	57	24-113	
Nitrobenzene-d5	60	23-120	
2-Fluorobiphenyl	57	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1945
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	63	19-122	
p-Terphenyl-d14	57	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1945-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 15:00**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-121	
Phenol-d6	68	24-113	
Nitrobenzene-d5	68	23-120	
2-Fluorobiphenyl	65	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1945
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	73	19-122	
p-Terphenyl-d14	72	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1945-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 15:19**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	75	25-121	
Phenol-d6	73	24-113	
Nitrobenzene-d5	81	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1945
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	78	19-122	
p-Terphenyl-d14	74	18-137	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-39**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 17:15**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1945
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	98	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR010.D
Acq On : 27 Mar 2016 2:41 pm
Operator : 923
Sample : 16-03-1945-1
Misc : 10UL S7-16-23
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Trifluoroacetic...	13.277	6.6	mg/l	637944	6	12.668	3848780	40.0
16-Hentriaconta...	14.229	12.0	mg/l	1153030	6	12.668	3848780	40.0
Cyclopentadecane	14.342	4.6	mg/l	442262	6	12.668	3848780	40.0
Stigmasterol, 2...	14.807	29.7	mg/l	2858220	6	12.668	3848780	40.0

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR011.D
Acq On : 27 Mar 2016 3:00 pm
Operator : 923
Sample : 16-03-1945-2
Misc : 10UL S7-16-23
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR012.D
Acq On : 27 Mar 2016 3:19 pm
Operator : 923
Sample : 16-03-1945-3
Misc : 10UL S7-16-23
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1945
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-39	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:36**	**160326L06**
096-02-006-39	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:56**	**160326L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	168.6	84	178.5	89	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	172.6	86	182.9	91	23-134	4-152	6	0-40	
1,4-Dichlorobenzene	200.0	161.9	81	169.6	85	20-124	3-141	5	0-28	
N-Nitroso-di-n-propylamine	200.0	179.7	90	188.7	94	0-230	0-268	5	0-38	
1,2,4-Trichlorobenzene	200.0	168.9	84	176.8	88	44-142	28-158	5	0-28	
Naphthalene	200.0	159.4	80	167.3	84	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.5	87	184.2	92	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	177.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	163.3	82	172.2	86	33-145	14-164	5	0-20	
Acenaphthene	200.0	172.9	86	183.7	92	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	198.4	99	211.6	106	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	196.8	98	39-139	22-156	6	0-38	
Fluorene	200.0	163.1	82	174.1	87	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	183.0	92	199.0	99	14-176	0-203	8	0-20	
Pyrene	200.0	194.1	97	207.7	104	52-115	42-126	7	0-20	
Butyl Benzyl Phthalate	200.0	184.9	92	201.5	101	0-152	0-177	9	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1945**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Shannan Hill
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1 [redacted]	100cm²	Gauze wipe	Living room mantel	SVOCs 8270
2	100cm²	Gauze wipe	TV Cabinet top Shelf	SVOCs 8270
3	100cm²	Gauze wipe	North facing, living room window Sill	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1657	Received by:	Date: 3/28/16	Time: 0830
Relinquished by:	Date: 3/26/16	Time: 1000	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1945

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: SR

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☒ Not Present	☐ N/A	Checked by: SR
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☒ Not Present	☐ N/A	Checked by: 1017

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☐	☒	☐
☐ Sampling date ☒ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☒
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☒
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☒ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1946

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1946

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Work Order Narrative

Work Order: 16-03-1946 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1946.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1946-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 15:38**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	100	25-121	
Phenol-d6	95	24-113	
Nitrobenzene-d5	102	23-120	
2-Fluorobiphenyl	94	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1946
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	99	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1946-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 15:57**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	87	25-121	
Phenol-d6	86	24-113	
Nitrobenzene-d5	89	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1946
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1946-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 16:17**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	70	24-113	
Nitrobenzene-d5	72	23-120	
2-Fluorobiphenyl	67	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1946
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	73	19-122	
p-Terphenyl-d14	74	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1946-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 16:36**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	92	25-121	
Phenol-d6	91	24-113	
Nitrobenzene-d5	94	23-120	
2-Fluorobiphenyl	87	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1946
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	90	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-39**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 17:15**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1946
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	98	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR013.D
Acq On : 27 Mar 2016 3:38 pm
Operator : 923
Sample : 16-03-1946-1
Misc : 10UL S7-16-23
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR014.D
Acq On : 27 Mar 2016 3:57 pm
Operator : 923
Sample : 16-03-1946-2
Misc : 10UL S7-16-23
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR015.D
Acq On : 27 Mar 2016 4:17 pm
Operator : 923
Sample : 16-03-1946-3
Misc : 10UL S7-16-23
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR016.D
Acq On : 27 Mar 2016 4:36 pm
Operator : 923
Sample : 16-03-1946-4
Misc : 10UL S7-16-23
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1946
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-39	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:36**	**160326L06**
096-02-006-39	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:56**	**160326L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	168.6	84	178.5	89	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	172.6	86	182.9	91	23-134	4-152	6	0-40	
1,4-Dichlorobenzene	200.0	161.9	81	169.6	85	20-124	3-141	5	0-28	
N-Nitroso-di-n-propylamine	200.0	179.7	90	188.7	94	0-230	0-268	5	0-38	
1,2,4-Trichlorobenzene	200.0	168.9	84	176.8	88	44-142	28-158	5	0-28	
Naphthalene	200.0	159.4	80	167.3	84	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.5	87	184.2	92	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	177.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	163.3	82	172.2	86	33-145	14-164	5	0-20	
Acenaphthene	200.0	172.9	86	183.7	92	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	198.4	99	211.6	106	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	196.8	98	39-139	22-156	6	0-38	
Fluorene	200.0	163.1	82	174.1	87	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	183.0	92	199.0	99	14-176	0-203	8	0-20	
Pyrene	200.0	194.1	97	207.7	104	52-115	42-126	7	0-20	
Butyl Benzyl Phthalate	200.0	184.9	92	201.5	101	0-152	0-177	9	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1946 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1946**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Weitzel, Frank
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1 [redacted]	100 cm²	Gauze Wipe	Top surface of ceiling fan master bedroom	8270
2	100 cm²	Gauze wipe	window sill, north facing bedroom	8270
3	100 cm²	Gauze wipe	side table, livingroom under north facing window	8270
4	100 cm²	Gauze wipe	sill of window North facing bedroom window	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1700	Received by:	Date: 3/25/16	Time: 1900
Relinquished by:	Date: 3/26/16	Time: 1000	Received by: FedEx	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1946

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1947

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1947

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Work Order Narrative

Work Order: 16-03-1947 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1947.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1947-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 16:17**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	96	25-121	
Phenol-d6	97	24-113	
Nitrobenzene-d5	100	23-120	
2-Fluorobiphenyl	93	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1947
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	103	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1947-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 17:34**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1947
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	90	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1947
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1947-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 17:53**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	90	25-121	
Phenol-d6	90	24-113	
Nitrobenzene-d5	91	23-120	
2-Fluorobiphenyl	84	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1947
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	90	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1947-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 18:12**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	94	25-121	
Phenol-d6	95	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1947
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	97	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1947-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 18:32**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	91	25-121	
Phenol-d6	91	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1947
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	89	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1947-6-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 18:51**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	72	25-121	
Phenol-d6	72	24-113	
Nitrobenzene-d5	68	23-120	
2-Fluorobiphenyl	63	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1947
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	69	19-122	
p-Terphenyl-d14	69	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1947
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 19 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-39**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 17:15**	**160326L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1947
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	98	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR003.D
Acq On : 26 Mar 2016 4:17 pm
Operator : 923
Sample : 16-03-1947-1
Misc : 10UL S7-16-22
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Diethylene glyc...	10.673	4.4	mg/l	471298	5	10.806	4310870	40.0

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Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR007.D
Acq On : 26 Mar 2016 5:34 pm
Operator : 923
Sample : 16-03-1947-2
Misc : 10UL S7-16-23
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR008.D
Acq On : 26 Mar 2016 5:53 pm
Operator : 923
Sample : 16-03-1947-3
Misc : 10UL S7-16-23
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR009.D
Acq On : 26 Mar 2016 6:12 pm
Operator : 923
Sample : 16-03-1947-4
Misc : 10UL S7-16-23
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR010.D
Acq On : 26 Mar 2016 6:32 pm
Operator : 923
Sample : 16-03-1947-5
Misc : 10UL S7-16-23
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR011.D
Acq On : 26 Mar 2016 6:51 pm
Operator : 923
Sample : 16-03-1947-6
Misc : 10UL S7-16-23
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1947
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-39	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:36**	**160326L06**
096-02-006-39	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 16:56**	**160326L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	168.6	84	178.5	89	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	172.6	86	182.9	91	23-134	4-152	6	0-40	
1,4-Dichlorobenzene	200.0	161.9	81	169.6	85	20-124	3-141	5	0-28	
N-Nitroso-di-n-propylamine	200.0	179.7	90	188.7	94	0-230	0-268	5	0-38	
1,2,4-Trichlorobenzene	200.0	168.9	84	176.8	88	44-142	28-158	5	0-28	
Naphthalene	200.0	159.4	80	167.3	84	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.5	87	184.2	92	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	177.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	163.3	82	172.2	86	33-145	14-164	5	0-20	
Acenaphthene	200.0	172.9	86	183.7	92	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	198.4	99	211.6	106	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	196.8	98	39-139	22-156	6	0-38	
Fluorene	200.0	163.1	82	174.1	87	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	183.0	92	199.0	99	14-176	0-203	8	0-20	
Pyrene	200.0	194.1	97	207.7	104	52-115	42-126	7	0-20	
Butyl Benzyl Phthalate	200.0	184.9	92	201.5	101	0-152	0-177	9	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1947 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1947**
	Client: Los Angeles County	Sampler Name: Brian Pierce
	Project Location: Aliso Canyon	Date: 3/25/16

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100cm²	GAUZE WIPE	NORTH FACING WINDOW SILL	8270
2		100 cm²	"	BATHROOM NORTH FACING WINDOW BLIND	"
3		"	"	ENTRY ROOM NORTH FACING WINDOW SILL	"
4		"	"	LIVING ROOM NORTH FACING WINDOW SILL	"
5		"	"	UPSTAIRS BEDROOM NORTH FACING WINDOW SILL	"
6		"	"	UPSTAIRS " " " " "	"

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 17:45	Received by:	Date: 3/25/16	Time: 1745
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by: ECS	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1947

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1948

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1948

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Work Order Narrative

Work Order: 16-03-1948 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1948.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1948-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 20:08**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	71	25-121	
Phenol-d6	73	24-113	
Nitrobenzene-d5	71	23-120	
2-Fluorobiphenyl	66	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1948
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	74	19-122	
p-Terphenyl-d14	70	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1948-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 20:27**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	67	25-121	
Phenol-d6	69	24-113	
Nitrobenzene-d5	67	23-120	
2-Fluorobiphenyl	62	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1948
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	69	19-122	
p-Terphenyl-d14	64	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1948-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 20:46**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	97	25-121	
Phenol-d6	97	24-113	
Nitrobenzene-d5	94	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1948
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1948-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 21:06**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	68	24-113	
Nitrobenzene-d5	68	23-120	
2-Fluorobiphenyl	63	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1948
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	66	19-122	
p-Terphenyl-d14	65	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-40**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:49**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1948
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR015.D
Acq On : 26 Mar 2016 8:08 pm
Operator : 923
Sample : 16-03-1948-1
Misc : 10UL S7-16-23
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR016.D
Acq On : 26 Mar 2016 8:27 pm
Operator : 923
Sample : 16-03-1948-2
Misc : 10UL S7-16-23
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR017.D
Acq On : 26 Mar 2016 8:46 pm
Operator : 923
Sample : 16-03-1948-3
Misc : 10UL S7-16-23
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR018.D
Acq On : 26 Mar 2016 9:06 pm
Operator : 923
Sample : 16-03-1948-4
Misc : 10UL S7-16-23
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1948
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-40	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:10**	**160326L07**
096-02-006-40	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:29**	**160326L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	176.7	88	173.2	87	20-120	3-137	2	0-42	
2-Chlorophenol	200.0	182.7	91	179.4	90	23-134	4-152	2	0-40	
1,4-Dichlorobenzene	200.0	171.3	86	166.7	83	20-124	3-141	3	0-28	
N-Nitroso-di-n-propylamine	200.0	188.7	94	183.5	92	0-230	0-268	3	0-38	
1,2,4-Trichlorobenzene	200.0	172.8	86	167.2	84	44-142	28-158	3	0-28	
Naphthalene	200.0	161.5	81	157.6	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	177.3	89	171.0	86	22-147	1-168	4	0-20	
Dimethyl Phthalate	200.0	169.2	85	162.5	81	0-112	0-131	4	0-20	
Acenaphthylene	200.0	165.0	83	161.1	81	33-145	14-164	2	0-20	
Acenaphthene	200.0	176.0	88	169.1	85	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	200.5	100	185.0	93	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	175.1	88	39-139	22-156	6	0-38	
Fluorene	200.0	164.9	82	158.1	79	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	187.4	94	181.5	91	14-176	0-203	3	0-20	
Pyrene	200.0	198.4	99	193.9	97	52-115	42-126	2	0-20	
Butyl Benzyl Phthalate	200.0	190.1	95	185.3	93	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1948 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

TAT	Project Manager: Meredith Church	Project # :603287.048	16-03-1948
24 HOURS AS POSSIBLE	[redacted]	Sampler Name: KYLE DONG / R. DUCKWORTH	
	Client: Los Angeles County	Date: 3-25-16	
	Project Location: Aliso Canyon		

Sample ID	Matrix (Dry/Solid)	Type	Location Description	Analysis Request
[redacted]	100 cm^2	Gauze wipe	1st Floor - Dining Rm - Dining table	8270
	100 cm^2	Gauze wipe	2nd floor, top stairs hall Right window sill	8270
	100 cm^2	Gauze wipe	2nd floor Master bedroom Bay window (right) sill	8370
	100 cm^2	Gauze wipe	Fam. Rm - window sill	8370

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs - gauze wipes/DI Water - glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

RELINQUISHED BY: [redacted] 3/26/16 10:00 RECEIVED BY: [redacted] ECL 3/26/16 1000

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WORK ORDER NUMBER: 16-03- 1948

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☐	☒	☐
☐ Sampling date ☒ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☒
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☒
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☒ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1949

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1949

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Work Order Narrative

Work Order: 16-03-1949 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1949.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1949
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1949-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 21:25**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received:	03/26/16
Work Order:	16-03-1949
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	74	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1949
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	79	19-122	
p-Terphenyl-d14	76	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1949
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-40**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:49**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1949
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1949
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR019.D
Acq On : 26 Mar 2016 9:25 pm
Operator : 923
Sample : 16-03-1949-1
Misc : 10UL S7-16-23
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1949
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-40	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:10**	**160326L07**
096-02-006-40	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:29**	**160326L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	176.7	88	173.2	87	20-120	3-137	2	0-42	
2-Chlorophenol	200.0	182.7	91	179.4	90	23-134	4-152	2	0-40	
1,4-Dichlorobenzene	200.0	171.3	86	166.7	83	20-124	3-141	3	0-28	
N-Nitroso-di-n-propylamine	200.0	188.7	94	183.5	92	0-230	0-268	3	0-38	
1,2,4-Trichlorobenzene	200.0	172.8	86	167.2	84	44-142	28-158	3	0-28	
Naphthalene	200.0	161.5	81	157.6	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	177.3	89	171.0	86	22-147	1-168	4	0-20	
Dimethyl Phthalate	200.0	169.2	85	162.5	81	0-112	0-131	4	0-20	
Acenaphthylene	200.0	165.0	83	161.1	81	33-145	14-164	2	0-20	
Acenaphthene	200.0	176.0	88	169.1	85	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	200.5	100	185.0	93	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	175.1	88	39-139	22-156	6	0-38	
Fluorene	200.0	164.9	82	158.1	79	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	187.4	94	181.5	91	14-176	0-203	3	0-20	
Pyrene	200.0	198.4	99	193.9	97	52-115	42-126	2	0-20	
Butyl Benzyl Phthalate	200.0	190.1	95	185.3	93	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1949 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

Page 1 of 1

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1949**
	Client: Los Angeles County	Sampler Name: Devin Beeman
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100cm2	Gauze wipe	W facing laundry room atop washer	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1715	Received by:	Date: 3-25-16	Time: 1715
Relinquished by:	Date: 3/26/16	Time: 0700	Received by: CES	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1949

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2oz CGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: _____

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WORK ORDER NUMBER: 16-03-1950

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1950

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Work Order Narrative

Work Order: 16-03-1950 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1950.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1950-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 21:44**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	32	25-121	
Phenol-d6	53	24-113	
Nitrobenzene-d5	47	23-120	
2-Fluorobiphenyl	65	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1950
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	80	19-122	
p-Terphenyl-d14	80	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1950-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 22:03**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	64	25-121	
Phenol-d6	66	24-113	
Nitrobenzene-d5	67	23-120	
2-Fluorobiphenyl	64	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1950
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	69	19-122	
p-Terphenyl-d14	72	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1950-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 22:23**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	88	25-121	
Phenol-d6	87	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1950
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 9 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	86	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1950-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 22:42**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	93	25-121	
Phenol-d6	91	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	83	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1950
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1950-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 23:01**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	89	25-121	
Phenol-d6	89	24-113	
Nitrobenzene-d5	89	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1950
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	89	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-40**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:49**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1950
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 18 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR020.D
Acq On : 26 Mar 2016 9:44 pm
Operator : 923
Sample : 16-03-1950-1
Misc : 10UL S7-16-23
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR021.D
Acq On : 26 Mar 2016 10:03 pm
Operator : 923
Sample : 16-03-1950-2
Misc : 10UL S7-16-23
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR022.D
Acq On : 26 Mar 2016 10:23 pm
Operator : 923
Sample : 16-03-1950-3
Misc : 10UL S7-16-23
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR023.D
Acq On : 26 Mar 2016 10:42 pm
Operator : 923
Sample : 16-03-1950-4
Misc : 10UL S7-16-23
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR024.D
Acq On : 26 Mar 2016 11:01 pm
Operator : 923
Sample : 16-03-1950-5
Misc : 10UL S7-16-23
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1950
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-40	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:10**	**160326L07**
096-02-006-40	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:29**	**160326L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	176.7	88	173.2	87	20-120	3-137	2	0-42	
2-Chlorophenol	200.0	182.7	91	179.4	90	23-134	4-152	2	0-40	
1,4-Dichlorobenzene	200.0	171.3	86	166.7	83	20-124	3-141	3	0-28	
N-Nitroso-di-n-propylamine	200.0	188.7	94	183.5	92	0-230	0-268	3	0-38	
1,2,4-Trichlorobenzene	200.0	172.8	86	167.2	84	44-142	28-158	3	0-28	
Naphthalene	200.0	161.5	81	157.6	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	177.3	89	171.0	86	22-147	1-168	4	0-20	
Dimethyl Phthalate	200.0	169.2	85	162.5	81	0-112	0-131	4	0-20	
Acenaphthylene	200.0	165.0	83	161.1	81	33-145	14-164	2	0-20	
Acenaphthene	200.0	176.0	88	169.1	85	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	200.5	100	185.0	93	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	175.1	88	39-139	22-156	6	0-38	
Fluorene	200.0	164.9	82	158.1	79	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	187.4	94	181.5	91	14-176	0-203	3	0-20	
Pyrene	200.0	198.4	99	193.9	97	52-115	42-126	2	0-20	
Butyl Benzyl Phthalate	200.0	190.1	95	185.3	93	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1950 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1950**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Lucas Wallin
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
1	100 Cm²	Gauze wipes	Counter top Under ~~T.V.~~ T.V. located inside Den area	8270
2	100 Cm²	Gauze wipes	facing North side on top of Refrigerator inside kitchen.	"
3	100 Cm²	Gauze wipes	Window sills inside bedroom # 1 Facing North	"
4	"	"	" " " "	"
5	"	"	Night stand table top in room #4 Facing North/West	"

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1700	Received by:		Date: 3/25/16	Time: 1700
Relinquished by:	Date: 3/26/16	Time: 0800	Received by:	EG	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:		Date:	Time:

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WORK ORDER NUMBER: 16-03- 1950

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1951

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-03-1951

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Work Order Narrative

Work Order: 16-03-1951 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1951.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1951
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 1 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1951-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 23:21**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	51	25-121	
Phenol-d6	53	24-113	
Nitrobenzene-d5	54	23-120	
2-Fluorobiphenyl	54	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1951
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	60	19-122	
p-Terphenyl-d14	59	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1951-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 23:40**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	71	24-113	
Nitrobenzene-d5	70	23-120	
2-Fluorobiphenyl	65	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1951
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	73	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1951
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1951-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/26/16 23:59**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	78	25-121	
Phenol-d6	78	24-113	
Nitrobenzene-d5	76	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1951
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 9 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	74	19-122	
p-Terphenyl-d14	73	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1951-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 00:18**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	88	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1951
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 12 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	85	19-122	
p-Terphenyl-d14	83	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1951-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 00:38**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	87	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	77	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1951
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	84	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 16 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-40**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:49**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1951
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 18 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR025.D
Acq On : 26 Mar 2016 11:21 pm
Operator : 923
Sample : 16-03-1951-1
Misc : 10UL S7-16-23
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR026.D
Acq On : 26 Mar 2016 11:40 pm
Operator : 923
Sample : 16-03-1951-2
Misc : 10UL S7-16-23
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR027.D
Acq On : 26 Mar 2016 11:59 pm
Operator : 923
Sample : 16-03-1951-3
Misc : 10UL S7-16-23
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR028.D
Acq On : 27 Mar 2016 12:18 am
Operator : 923
Sample : 16-03-1951-4
Misc : 10UL S7-16-23
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR029.D
Acq On : 27 Mar 2016 12:38 am
Operator : 923
Sample : 16-03-1951-5
Misc : 10UL S7-16-23
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1951
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-40	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:10**	**160326L07**
096-02-006-40	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:29**	**160326L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	176.7	88	173.2	87	20-120	3-137	2	0-42	
2-Chlorophenol	200.0	182.7	91	179.4	90	23-134	4-152	2	0-40	
1,4-Dichlorobenzene	200.0	171.3	86	166.7	83	20-124	3-141	3	0-28	
N-Nitroso-di-n-propylamine	200.0	188.7	94	183.5	92	0-230	0-268	3	0-38	
1,2,4-Trichlorobenzene	200.0	172.8	86	167.2	84	44-142	28-158	3	0-28	
Naphthalene	200.0	161.5	81	157.6	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	177.3	89	171.0	86	22-147	1-168	4	0-20	
Dimethyl Phthalate	200.0	169.2	85	162.5	81	0-112	0-131	4	0-20	
Acenaphthylene	200.0	165.0	83	161.1	81	33-145	14-164	2	0-20	
Acenaphthene	200.0	176.0	88	169.1	85	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	200.5	100	185.0	93	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	175.1	88	39-139	22-156	6	0-38	
Fluorene	200.0	164.9	82	158.1	79	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	187.4	94	181.5	91	14-176	0-203	3	0-20	
Pyrene	200.0	198.4	99	193.9	97	52-115	42-126	2	0-20	
Butyl Benzyl Phthalate	200.0	190.1	95	185.3	93	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1951 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1951**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Richard ON
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
1	100 cm²	Gauze wipe Rock/grout	Window sill North facing	8270
2	100 cm²	Wood/paint Gauze wipe	N/E facing window sill upstairs office.	8270
3	100 cm²	gauze wipe Grout	Window sill grout. at Kitchen area	8270
4	100 cm²	Wood/ paint gauze wipe	window sill upstairs Bdrm North facing.	8270
5	100 cm²	Gauze wipe	window sill North facing Living Room	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1810	Received by:	Date: 3/25/16	Time: 1810
Relinquished by:	Date: 3/26/16	Time: 1000	Received by: FED	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1951

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGBs ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: JN

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WORK ORDER NUMBER: 16-03-1952

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1952

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Work Order Narrative

Work Order: 16-03-1952 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1952.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1952-1-A**	**03/25/16 00:00**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 12:37**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	62	25-121	
Phenol-d6	64	24-113	
Nitrobenzene-d5	60	23-120	
2-Fluorobiphenyl	58	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1952
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	62	19-122	
p-Terphenyl-d14	60	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1952-2-A**	**03/25/16 00:00**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 12:57**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	43	25-121	
Phenol-d6	47	24-113	
Nitrobenzene-d5	45	23-120	
2-Fluorobiphenyl	47	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1952
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	59	19-122	
p-Terphenyl-d14	60	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1952-3-A**	**03/25/16 00:00**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 13:17**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	79	24-113	
Nitrobenzene-d5	77	23-120	
2-Fluorobiphenyl	74	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1952
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	81	19-122	
p-Terphenyl-d14	81	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1952-4-A**	**03/25/16 00:00**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 13:37**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	76	23-120	
2-Fluorobiphenyl	73	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1952
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	78	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-41**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 12:17**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	77	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1952
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR006.D
Acq On : 27 Mar 2016 12:37 pm
Operator : 923
Sample : 16-03-1952-1
Misc : 10UL S7-16-23
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR007.D
Acq On : 27 Mar 2016 12:57 pm
Operator : 923
Sample : 16-03-1952-2
Misc : 10UL S7-16-23
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR008.D
Acq On : 27 Mar 2016 1:17 pm
Operator : 923
Sample : 16-03-1952-3
Misc : 10UL S7-16-23
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR009.D
Acq On : 27 Mar 2016 1:37 pm
Operator : 923
Sample : 16-03-1952-4
Misc : 10UL S7-16-23
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1952
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-41	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 11:38**	**160326L08**
096-02-006-41	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 11:58**	**160326L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	169.3	85	180.9	90	20-120	3-137	7	0-42	
2-Chlorophenol	200.0	165.6	83	178.5	89	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	160.6	80	171.1	86	20-124	3-141	6	0-28	
N-Nitroso-di-n-propylamine	200.0	168.1	84	179.4	90	0-230	0-268	7	0-38	
1,2,4-Trichlorobenzene	200.0	165.3	83	173.2	87	44-142	28-158	5	0-28	
Naphthalene	200.0	158.5	79	166.2	83	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.4	87	178.0	89	22-147	1-168	2	0-20	
Dimethyl Phthalate	200.0	162.5	81	165.1	83	0-112	0-131	2	0-20	
Acenaphthylene	200.0	161.0	80	165.8	83	33-145	14-164	3	0-20	
Acenaphthene	200.0	166.5	83	173.1	87	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	168.9	84	182.6	91	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	178.5	89	180.0	90	39-139	22-156	1	0-38	
Fluorene	200.0	168.9	84	173.2	87	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	198.8	99	209.9	105	14-176	0-203	5	0-20	
Pyrene	200.0	177.2	89	187.3	94	52-115	42-126	6	0-20	
Butyl Benzyl Phthalate	200.0	171.8	86	177.1	89	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1952 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1952**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 03.25.16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] 1	100 cm²	Gauze Wipes	Master Bathroom, Window Seal	SVOCs, 8270
2	100 cm²	Gauze Wipe	Laundry Room, Window Seal	SVOCs, 8270
3	100 cm²	Gauze Wipe	Laundry Room, Window Seal	SVOCs, 8270
4	100 cm²	Gauze Wipe	Dining Area Window Seal	SVOCs, 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3.25.16	Time: 5:50	Received by:	Date: 3/25/16	Time: 17:50
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1952

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: AV

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WORK ORDER NUMBER: 16-03-1953

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1953

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Work Order Narrative

Work Order: 16-03-1953 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1953.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1953
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1953-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 00:57**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1953
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	76	23-120	
2-Fluorobiphenyl	70	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1953
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	77	19-122	
p-Terphenyl-d14	75	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1953
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-40**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:49**	**160326L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1953
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1953
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160326\
Data File : 26MAR030.D
Acq On : 27 Mar 2016 12:57 am
Operator : 923
Sample : 16-03-1953-1
Misc : 10UL S7-16-23
ALS Vial : 30 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1953
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-40	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:10**	**160326L07**
096-02-006-40	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/26/16 19:29**	**160326L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	176.7	88	173.2	87	20-120	3-137	2	0-42	
2-Chlorophenol	200.0	182.7	91	179.4	90	23-134	4-152	2	0-40	
1,4-Dichlorobenzene	200.0	171.3	86	166.7	83	20-124	3-141	3	0-28	
N-Nitroso-di-n-propylamine	200.0	188.7	94	183.5	92	0-230	0-268	3	0-38	
1,2,4-Trichlorobenzene	200.0	172.8	86	167.2	84	44-142	28-158	3	0-28	
Naphthalene	200.0	161.5	81	157.6	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	177.3	89	171.0	86	22-147	1-168	4	0-20	
Dimethyl Phthalate	200.0	169.2	85	162.5	81	0-112	0-131	4	0-20	
Acenaphthylene	200.0	165.0	83	161.1	81	33-145	14-164	2	0-20	
Acenaphthene	200.0	176.0	88	169.1	85	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	200.5	100	185.0	93	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	185.6	93	175.1	88	39-139	22-156	6	0-38	
Fluorene	200.0	164.9	82	158.1	79	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	187.4	94	181.5	91	14-176	0-203	3	0-20	
Pyrene	200.0	198.4	99	193.9	97	52-115	42-126	2	0-20	
Butyl Benzyl Phthalate	200.0	190.1	95	185.3	93	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1953 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1953**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 3.25.16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100cm²	Gauze Wipe	Dining Room Area Window Seal	SVOCs, 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3.25.16	Time: 1720	Received by:	Date: 3.25.16	Time: 1720
Relinquished by:	Date: 3/26/16	Time: 0700	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1953

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1954

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1954

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Work Order Narrative

Work Order: 16-03-1954 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1954.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 13:56**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	81	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1954
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	81	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 14:16**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	65	25-121	
Phenol-d6	67	24-113	
Nitrobenzene-d5	64	23-120	
2-Fluorobiphenyl	62	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	66	19-122	
p-Terphenyl-d14	69	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 14:36**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1954
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	86	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 14:56**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	87	25-121	
Phenol-d6	91	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	85	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1954
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 13 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 15:16**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	8.3	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	78	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	79	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1954
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	86	19-122	
p-Terphenyl-d14	83	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-6-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 15:35**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	57	25-121	
Phenol-d6	61	24-113	
Nitrobenzene-d5	58	23-120	
2-Fluorobiphenyl	59	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 18 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	71	19-122	
p-Terphenyl-d14	73	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 19 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1954-7-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 15:55**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 21 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	84	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 22 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-41**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 12:17**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	77	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1954
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 24 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR010.D
Acq On : 27 Mar 2016 1:56 pm
Operator : 923
Sample : 16-03-1954-1
Misc : 10UL S7-16-23
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR011.D
Acq On : 27 Mar 2016 2:16 pm
Operator : 923
Sample : 16-03-1954-2
Misc : 10UL S7-16-23
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR012.D
Acq On : 27 Mar 2016 2:36 pm
Operator : 923
Sample : 16-03-1954-3
Misc : 10UL S7-16-23
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR013.D
Acq On : 27 Mar 2016 2:56 pm
Operator : 923
Sample : 16-03-1954-4
Misc : 10UL S7-16-23
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR014.D
Acq On : 27 Mar 2016 3:16 pm
Operator : 923
Sample : 16-03-1954-5
Misc : 10UL S7-16-23
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,3-Dioxolane, ...	10.303	4.5	mg/l	515188	5	10.416	4561580	40.0

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR015.D
Acq On : 27 Mar 2016 3:35 pm
Operator : 923
Sample : 16-03-1954-6
Misc : 10UL S7-16-23
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR016.D
Acq On : 27 Mar 2016 3:55 pm
Operator : 923
Sample : 16-03-1954-7
Misc : 10UL S7-16-23
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1954
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-41	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 11:38**	**160326L08**
096-02-006-41	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 11:58**	**160326L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	169.3	85	180.9	90	20-120	3-137	7	0-42	
2-Chlorophenol	200.0	165.6	83	178.5	89	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	160.6	80	171.1	86	20-124	3-141	6	0-28	
N-Nitroso-di-n-propylamine	200.0	168.1	84	179.4	90	0-230	0-268	7	0-38	
1,2,4-Trichlorobenzene	200.0	165.3	83	173.2	87	44-142	28-158	5	0-28	
Naphthalene	200.0	158.5	79	166.2	83	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.4	87	178.0	89	22-147	1-168	2	0-20	
Dimethyl Phthalate	200.0	162.5	81	165.1	83	0-112	0-131	2	0-20	
Acenaphthylene	200.0	161.0	80	165.8	83	33-145	14-164	3	0-20	
Acenaphthene	200.0	166.5	83	173.1	87	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	168.9	84	182.6	91	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	178.5	89	180.0	90	39-139	22-156	1	0-38	
Fluorene	200.0	168.9	84	173.2	87	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	198.8	99	209.9	105	14-176	0-203	5	0-20	
Pyrene	200.0	177.2	89	187.3	94	52-115	42-126	6	0-20	
Butyl Benzyl Phthalate	200.0	171.8	86	177.1	89	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1954**
	Client: Los Angeles County	Sampler Name: KIRKA CAVALIER PETER HABIB
	Project Location: Aliso Canyon	Date: 3/25/16

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100 cm	Guaze Wipes	Mantle on top of fireplace inside family room	8270
2		100 cm	Guaze Wipes	Laundry room Window Sill	8270
3		100 Cm	Guaze Wipes	Top of Entertainment center on North wall of family room	8270
4		100 Cm	Guaze Wipes	Window Sill - Upstairs office / left - North Facing Window	8270
5		100 Cm	Guaze Wipes	North Facing window Sill inside living room	8270
6		100 Cm	Guaze Wipes	Window Sill - North Facing at office / bedroom location	8270
7		100 Cm	Guaze Wipes	Window Sill - North Facing Window (far right) @ living room	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25	Time: 5:30	Received by:	Date: 3/25/16	Time: 5:30
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by: EE	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1954

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2oz CGJ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO_3, na = NaOH, na_2 = $Na_2S_2O_3$, p = H_3PO_4, s = H_2SO_4, u = ultra-pure, znna = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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Nicole Scott

From: Ines Cadavid-Parr <icadavid-parr@leightongroup.com>
Sent: Monday, March 28, 2016 1:02 PM
To: Nicole Scott
Subject: RE: Chain of custody

Also. Please report down to mdl (jflag).

If you have anybquestions do not hesitate to contact me st 8182356266. Thank you.

Ines Cadavid-Parr

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: fparr@att.net
Date: 03/28/2016 12:37 PM (GMT-08:00)
To: Ines Cadavid-Parr <icadavid-parr@leightongroup.com>
Subject: Fwd: Chain of custody

Sent from my iPhone

Begin forwarded message:

> **From:** fparr@att.net
> **Date:** March 28, 2016 at 10:36:52 AM PDT
> **To:** NicoleScott@europhinsUS.com
> **Cc:** icadavid-parr@leightongroup.com
> **Subject: Chain of custody**
>
> Nicole,
> There was an error on the chain of custody attached. The correct identification number for the sample is 91-GZ. The samples were also mislabeled. Please make the changes.
>
> Thanks
>
> Ines Cadavid-Parr
> Leighton

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CHAIN OF CUSTODY FORM

Page 1 of 1

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church	Project # :603287.048
	[redacted]	Sampler Name: ~~KYLE CHANDLER~~ PETER HARRIS
	Client: Los Angeles County	Date: 3/25/16
	Project Location: Aliso Canyon	

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100 cm	Guaze Wipes	Mantle on top of fireplace inside family room	8270
	100 cm	Guaze Wipes	Laundry room Window Sill	8270
	100 cm	Guaze Wipes	Top of Entertainment center on North wall of family room	8270
	100 cm	Guaze Wipes	Window Sill - Upstairs office/ loft - North Facing Window	8270
	100 cm	Guaze Wipes	North Facing Window Sill inside living room	8270
	100 cm	Guaze Wipes	Window Sill - North Facing at office/bedroom location	8270
	100 cm	Guaze Wipes	Window Sill - North Facing Window (far right) @ living room	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25	Time: 5:30	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03-1955

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1955

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Work Order Narrative

Work Order: 16-03-1955 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1955.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1955-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 17:14**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	64	25-121	
Phenol-d6	69	24-113	
Nitrobenzene-d5	66	23-120	
2-Fluorobiphenyl	65	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1955
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	70	19-122	
p-Terphenyl-d14	70	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1955-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 17:34**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	5.0	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	64	25-121	
Phenol-d6	67	24-113	
Nitrobenzene-d5	65	23-120	
2-Fluorobiphenyl	64	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1955
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	74	19-122	
p-Terphenyl-d14	74	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1955
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1955-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 17:54**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	79	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	79	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1955
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	80	19-122	
p-Terphenyl-d14	78	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1955-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 18:14**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	75	23-120	
2-Fluorobiphenyl	72	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1955
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 12 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	78	19-122	
p-Terphenyl-d14	81	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1955-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 18:34**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1955
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 14 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	1.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	68	25-121	
Phenol-d6	73	24-113	
Nitrobenzene-d5	70	23-120	
2-Fluorobiphenyl	68	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1955
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	80	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-41**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 12:17**	**160326L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	77	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1955
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 18 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR020.D
Acq On : 27 Mar 2016 5:14 pm
Operator : 923
Sample : 16-03-1955-1
Misc : 10UL S7-16-23
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR021.D
Acq On : 27 Mar 2016 5:34 pm
Operator : 923
Sample : 16-03-1955-2
Misc : 10UL S7-16-23
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR022.D
Acq On : 27 Mar 2016 5:54 pm
Operator : 923
Sample : 16-03-1955-3
Misc : 10UL S7-16-23
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR023.D
Acq On : 27 Mar 2016 6:14 pm
Operator : 923
Sample : 16-03-1955-4
Misc : 10UL S7-16-23
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR024.D
Acq On : 27 Mar 2016 6:34 pm
Operator : 923
Sample : 16-03-1955-5
Misc : 10UL S7-16-23
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Nonanal	3.917	4.2	mg/l	237143	2	4.537	2234710	40.0
n-Hexadecanoic ...	8.319	7.5	mg/l	635800	4	7.752	3392020	40.0

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1955
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-41	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 11:38**	**160326L08**
096-02-006-41	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 11:58**	**160326L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	169.3	85	180.9	90	20-120	3-137	7	0-42	
2-Chlorophenol	200.0	165.6	83	178.5	89	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	160.6	80	171.1	86	20-124	3-141	6	0-28	
N-Nitroso-di-n-propylamine	200.0	168.1	84	179.4	90	0-230	0-268	7	0-38	
1,2,4-Trichlorobenzene	200.0	165.3	83	173.2	87	44-142	28-158	5	0-28	
Naphthalene	200.0	158.5	79	166.2	83	21-133	2-152	5	0-20	
4-Chloro-3-Methylphenol	200.0	174.4	87	178.0	89	22-147	1-168	2	0-20	
Dimethyl Phthalate	200.0	162.5	81	165.1	83	0-112	0-131	2	0-20	
Acenaphthylene	200.0	161.0	80	165.8	83	33-145	14-164	3	0-20	
Acenaphthene	200.0	166.5	83	173.1	87	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	168.9	84	182.6	91	0-132	0-154	8	0-20	
2,4-Dinitrotoluene	200.0	178.5	89	180.0	90	39-139	22-156	1	0-38	
Fluorene	200.0	168.9	84	173.2	87	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	198.8	99	209.9	105	14-176	0-203	5	0-20	
Pyrene	200.0	177.2	89	187.3	94	52-115	42-126	6	0-20	
Butyl Benzyl Phthalate	200.0	171.8	86	177.1	89	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1955**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: RC/kj
	Project Location: Aliso Canyon	Date: 3/25/2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
1	4cm x 25cm = 100 cm²	Gauze Wipe	Bedroom/Office NNW window window sill 2nd floor	SVOCs 8270
2	100cm²	Gauze wipe	N side Master Bedroom 2nd floor window sill painted wood	SVOCs 8270
3	100cm²	Gauze wipes	N side pink bedroom 2nd floor window sill painted wood	SVOCs 8270
4	100cm²	Gauze wipe	N side Hall bathroom 2nd floor faux wood window shutter	SVOCs 8270
5	100cm²	Gauze Wipe	N Kitchen window - wood shutter 1st floor	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1645	Received by:	Date: 3/25/16	Time: 1645
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by:	Date: 3/26/16	Time: 1005
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1955

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1956

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1956

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Work Order Narrative

Work Order: 16-03-1956 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1956.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1956-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 13:34**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	72	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1956
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	80	19-122	
p-Terphenyl-d14	80	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1956-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 13:52**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1956
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	90	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1956-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 14:10**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-121	
Phenol-d6	69	24-113	
Nitrobenzene-d5	76	23-120	
2-Fluorobiphenyl	66	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1956
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	75	19-122	
p-Terphenyl-d14	76	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1956-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 14:29**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	72	25-121	
Phenol-d6	73	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1956
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	86	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1956
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-43**	**N/A**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 13:16**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	79	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1956
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	94	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR006.D
Acq On : 27 Mar 2016 1:34 pm
Operator : 923
Sample : 16-03-1956-1
Misc : 10UL S7-16-2
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR007.D
Acq On : 27 Mar 2016 1:52 pm
Operator : 923
Sample : 16-03-1956-2
Misc : 10UL S7-16-2
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR008.D
Acq On : 27 Mar 2016 2:10 pm
Operator : 923
Sample : 16-03-1956-3
Misc : 10UL S7-16-2
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR009.D
Acq On : 27 Mar 2016 2:29 pm
Operator : 923
Sample : 16-03-1956-4
Misc : 10UL S7-16-2
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1956
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-43	**LCS**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 12:39**	**160326L09**
096-02-006-43	**LCSD**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 12:57**	**160326L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.8	90	179.3	90	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	183.0	92	183.5	92	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	171.1	86	169.1	85	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	210.9	105	209.4	105	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	172.9	86	174.6	87	44-142	28-158	1	0-28	
Naphthalene	200.0	172.9	86	172.3	86	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	197.5	99	196.4	98	22-147	1-168	1	0-20	
Dimethyl Phthalate	200.0	180.0	90	172.6	86	0-112	0-131	4	0-20	
Acenaphthylene	200.0	169.4	85	166.0	83	33-145	14-164	2	0-20	
Acenaphthene	200.0	182.8	91	179.6	90	47-145	31-161	2	0-31	
4-Nitrophenol	200.0	195.4	98	187.2	94	0-132	0-154	4	0-20	
2,4-Dinitrotoluene	200.0	212.9	106	206.9	103	39-139	22-156	3	0-38	
Fluorene	200.0	173.2	87	167.4	84	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	184.2	92	174.4	87	14-176	0-203	5	0-20	
Pyrene	200.0	216.5	108	198.7	99	52-115	42-126	9	0-20	
Butyl Benzyl Phthalate	200.0	218.6	109	209.6	105	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1956 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted] Client: Los Angeles County Project Location: Aliso Canyon	Project # :603287.048 **16-03-1956** Sampler Name: ZACH FREEMAN Date: 3/25/16

Sample ID	Area (Dimensions)	Matrix	# of Containers	Field Point Name	Analysis Requested
[redacted]	100 cm²	GAUZE WIPE		NORTH FACING FORMAL DINING ROOM WINDOW SILL	8270
	100 cm²	GAUZE WIPE		NORTH FACING FORMAL DINING ROOM WINDOW SILL	8270
	100 cm²	GAUZE WIPE		NORTH FACING WINDOW SILL NEAR LIVING ROOM	8270
	100 cm²	GAUZE WIPE		WEST SIDE WINDOW SILL OF BEDROOM #1.	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by: [redacted] DATE 3/26/16 10:00 RECEIVED BY: [redacted] EOS 3/26/16 1000

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WORK ORDER NUMBER: 16-03- 1956

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1957

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

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Work Order Number: 16-03-1957

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Work Order Narrative

Work Order: 16-03-1957 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1957.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1957-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 16:55**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	48	25-121	
Phenol-d6	47	24-113	
Nitrobenzene-d5	49	23-120	
2-Fluorobiphenyl	47	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1957
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	51	19-122	
p-Terphenyl-d14	52	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1957-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 17:14**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	79	23-120	
2-Fluorobiphenyl	73	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1957
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	78	19-122	
p-Terphenyl-d14	73	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1957-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 17:33**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	59	25-121	
Phenol-d6	57	24-113	
Nitrobenzene-d5	64	23-120	
2-Fluorobiphenyl	61	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1957
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	66	19-122	
p-Terphenyl-d14	69	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-45**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 13:05**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1957
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR017.D
Acq On : 27 Mar 2016 4:55 pm
Operator : 923
Sample : 16-03-1957-1
Misc : 10UL S7-16-2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR018.D
Acq On : 27 Mar 2016 5:14 pm
Operator : 923
Sample : 16-03-1957-2
Misc : 10UL S7-16-2
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR019.D
Acq On : 27 Mar 2016 5:33 pm
Operator : 923
Sample : 16-03-1957-3
Misc : 10UL S7-16-2
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1957
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-45	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:27**	**160326L10**
096-02-006-45	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:46**	**160326L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	183.7	92	172.6	86	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	184.3	92	170.6	85	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	172.7	86	160.4	80	20-124	3-141	7	0-28	
N-Nitroso-di-n-propylamine	200.0	189.8	95	174.5	87	0-230	0-268	8	0-38	
1,2,4-Trichlorobenzene	200.0	180.6	90	165.5	83	44-142	28-158	9	0-28	
Naphthalene	200.0	168.2	84	157.2	79	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	187.8	94	171.6	86	22-147	1-168	9	0-20	
Dimethyl Phthalate	200.0	180.8	90	163.5	82	0-112	0-131	10	0-20	
Acenaphthylene	200.0	174.0	87	161.8	81	33-145	14-164	7	0-20	
Acenaphthene	200.0	182.7	91	171.3	86	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	213.7	107	201.7	101	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	197.9	99	181.0	91	39-139	22-156	9	0-38	
Fluorene	200.0	172.7	86	160.5	80	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	197.5	99	188.0	94	14-176	0-203	5	0-20	
Pyrene	200.0	191.8	96	183.5	92	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	188.5	94	181.2	91	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1957** ROBICA DULLABAUN
	Client: Los Angeles County	Sampler Name: Kyle Doug
	Project Location: Aliso Canyon	Date: 3-25-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
1	100 cm^2	Gauze Wipe	2nd Floor - Masterbedroom top armoire	8270
2	100 cm^2	Gauze wipe	2nd Floor - Masterbedroom top armoire	8270
3 15-GZ-B		Gauze wipe	Blank	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water –.glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1360	Received by:	Date: 3/25/16	Time: 1360
Relinquished by:	Date: 3/26/16	Time: 1000	Received by: FEDEX	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1957

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO_3, na = NaOH, na_2 = $Na_2S_2O_3$, p = H_3PO_4, s = H_2SO_4, u = ultra-pure, znna = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1958

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-03-1958

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Work Order Narrative

Work Order: 16-03-1958 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1958.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 18:26**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	4.3	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	70	25-121	
Phenol-d6	72	24-113	
Nitrobenzene-d5	79	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	78	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1958
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 4 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 18:44**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	77	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1958
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	84	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 19:03**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	79	24-113	
Nitrobenzene-d5	91	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	91	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1958
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 10 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 19:21**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Date Received:	03/26/16
Work Order:	16-03-1958
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	ug/smpl

Project: 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	86	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	84	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 19:39**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	75	25-121	
Phenol-d6	75	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	82	19-122	
p-Terphenyl-d14	83	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-6-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 19:58**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	77	24-113	
Nitrobenzene-d5	86	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 18 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	86	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-7-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 20:16**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	27	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	54	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	70	25-121	
Phenol-d6	72	24-113	
Nitrobenzene-d5	78	23-120	
2-Fluorobiphenyl	71	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 21 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1958
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 22 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1958-8-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 20:34**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1958
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 23 of 27

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	3.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-121	
Phenol-d6	67	24-113	
Nitrobenzene-d5	74	23-120	
2-Fluorobiphenyl	65	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1958
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 24 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	74	19-122	
p-Terphenyl-d14	73	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-43**	**N/A**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 13:16**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	79	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1958
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 27 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	94	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR022.D
Acq On : 27 Mar 2016 6:26 pm
Operator : 923
Sample : 16-03-1958-1
Misc : 10UL S7-16-2
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR023.D
Acq On : 27 Mar 2016 6:44 pm
Operator : 923
Sample : 16-03-1958-2
Misc : 10UL S7-16-2
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR024.D
Acq On : 27 Mar 2016 7:03 pm
Operator : 923
Sample : 16-03-1958-3
Misc : 10UL S7-16-2
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR025.D
Acq On : 27 Mar 2016 7:21 pm
Operator : 923
Sample : 16-03-1958-4
Misc : 10UL S7-16-2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR026.D
Acq On : 27 Mar 2016 7:39 pm
Operator : 923
Sample : 16-03-1958-5
Misc : 10UL S7-16-2
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR027.D
Acq On : 27 Mar 2016 7:58 pm
Operator : 923
Sample : 16-03-1958-6
Misc : 10UL S7-16-2
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.410	4.6	mg/l	474724	4	7.854	4086860	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR028.D
Acq On : 27 Mar 2016 8:16 pm
Operator : 923
Sample : 16-03-1958-7
Misc : 10UL S7-16-2
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Tridecanoic acid	8.410	5.7	mg/l	589795	4	7.854	4105430	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR029.D
Acq On : 27 Mar 2016 8:34 pm
Operator : 923
Sample : 16-03-1958-8
Misc : 10UL S7-16-2
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
n-Hexadecanoic ...	8.404	4.8	mg/l	469777	4	7.854	3875990	40.0
Morpholine, 4-p...	10.362	10.0	mg/l	1313400	5	10.539	5248680	40.0
Benzamide, N-pr...	10.410	8.1	mg/l	1059360	5	10.539	5248680	40.0

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1958
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-43	**LCS**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 12:39**	**160326L09**
096-02-006-43	**LCSD**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 12:57**	**160326L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.8	90	179.3	90	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	183.0	92	183.5	92	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	171.1	86	169.1	85	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	210.9	105	209.4	105	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	172.9	86	174.6	87	44-142	28-158	1	0-28	
Naphthalene	200.0	172.9	86	172.3	86	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	197.5	99	196.4	98	22-147	1-168	1	0-20	
Dimethyl Phthalate	200.0	180.0	90	172.6	86	0-112	0-131	4	0-20	
Acenaphthylene	200.0	169.4	85	166.0	83	33-145	14-164	2	0-20	
Acenaphthene	200.0	182.8	91	179.6	90	47-145	31-161	2	0-31	
4-Nitrophenol	200.0	195.4	98	187.2	94	0-132	0-154	4	0-20	
2,4-Dinitrotoluene	200.0	212.9	106	206.9	103	39-139	22-156	3	0-38	
Fluorene	200.0	173.2	87	167.4	84	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	184.2	92	174.4	87	14-176	0-203	5	0-20	
Pyrene	200.0	216.5	108	198.7	99	52-115	42-126	9	0-20	
Butyl Benzyl Phthalate	200.0	218.6	109	209.6	105	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1958 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1958**
	Client: Los Angeles County	Sampler Name: Haworth C. DeLuna
	Project Location: Aliso Canyon	Date: March 25, 2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] 1	100cm²	gauze wipe	North Stairs – Window Sill #2	8270
	~~03/25 100cm²~~	~~gauze wipe~~	~~North Stairs – Window Sill #2~~ HCO 03/25	~~8270~~
2	100cm2	gauze wipe	North living Room window sill #2	8270
3	100cm²	gauze wipe	Master bedroom 2nd Floor – Dresser top	8270
4	100cm2	gauze wipe	Master Bedroom 2nd Floor – Dresser Top	8270
5	100cm2	gauze wipe	Master Bedroom (north end of home) window sill	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 6:30 PM	Received by:	Date: 3/29/16	Time: 840
Relinquished by:	Date: 3/29/16	Time: 10:00	Received by: ES	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 (1958)
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Howard S Delerim
	Project Location: Aliso Canyon	Date: March 25, 2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] 6	100 cm²	gauze wipe	Master bedroom - 2nd Floor Bookshelf top	8270
7	100 cm²	gauze wipe	NOAH West ~~East~~ Bedroom (near HEPA vac gauze entry) window sill	8270
8	100 cm²	gauze wipe	2nd Floor north Bedroom window sill	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 5:40pm	Received by:	Date: 3/28/16	Time: 5:40
Relinquished by:	Date: 3/26/16	Time: 0:06	Received by:	Date: 3/26/16	Time: 1050
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1958

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1959

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1959

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Work Order Narrative

Work Order: 16-03-1959 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1959.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1959-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 14:47**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	73	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	74	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1959
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	83	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1959-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 15:05**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	73	25-121	
Phenol-d6	77	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	68	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1959
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1959-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 15:23**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	82	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	83	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1959
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 9 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	91	19-122	
p-Terphenyl-d14	90	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1959-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 15:42**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	4.3	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1959
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	86	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1959-5-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:00**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	77	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	77	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1959
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	83	19-122	
p-Terphenyl-d14	81	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-43**	**N/A**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 13:16**	**160326L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	79	25-121	
Phenol-d6	80	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1959
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 18 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	94	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR010.D
Acq On : 27 Mar 2016 2:47 pm
Operator : 923
Sample : 16-03-1959-1
Misc : 10UL S7-16-2
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR011.D
Acq On : 27 Mar 2016 3:05 pm
Operator : 923
Sample : 16-03-1959-2
Misc : 10UL S7-16-2
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Benzoyl bromide	7.372	5.2	mg/l	510926	4	7.854	3937270	40.0
Benzamide, N-pr...	10.367	7.6	mg/l	1030490	5	10.539	5407290	40.0
Benzamide, N-pr...	10.410	10.7	mg/l	1442450	5	10.539	5407290	40.0
(2,7-Dipropoxy-...	11.469	5.8	mg/l	734675	6	12.346	5047110	40.0

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR012.D
Acq On : 27 Mar 2016 3:23 pm
Operator : 923
Sample : 16-03-1959-3
Misc : 10UL S7-16-2
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR013.D
Acq On : 27 Mar 2016 3:42 pm
Operator : 923
Sample : 16-03-1959-4
Misc : 10UL S7-16-2
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR014.D
Acq On : 27 Mar 2016 4:00 pm
Operator : 923
Sample : 16-03-1959-5
Misc : 10UL S7-16-2
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1959
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-43	**LCS**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 12:39**	**160326L09**
096-02-006-43	**LCSD**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 12:57**	**160326L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.8	90	179.3	90	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	183.0	92	183.5	92	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	171.1	86	169.1	85	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	210.9	105	209.4	105	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	172.9	86	174.6	87	44-142	28-158	1	0-28	
Naphthalene	200.0	172.9	86	172.3	86	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	197.5	99	196.4	98	22-147	1-168	1	0-20	
Dimethyl Phthalate	200.0	180.0	90	172.6	86	0-112	0-131	4	0-20	
Acenaphthylene	200.0	169.4	85	166.0	83	33-145	14-164	2	0-20	
Acenaphthene	200.0	182.8	91	179.6	90	47-145	31-161	2	0-31	
4-Nitrophenol	200.0	195.4	98	187.2	94	0-132	0-154	4	0-20	
2,4-Dinitrotoluene	200.0	212.9	106	206.9	103	39-139	22-156	3	0-38	
Fluorene	200.0	173.2	87	167.4	84	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	184.2	92	174.4	87	14-176	0-203	5	0-20	
Pyrene	200.0	216.5	108	198.7	99	52-115	42-126	9	0-20	
Butyl Benzyl Phthalate	200.0	218.6	109	209.6	105	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1959 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1959**
	Client: Los Angeles County	Sampler Name: Kurt Seubert.
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] 1	100 cm²	GZ	Piano horizontal surface in middle of living room.	8270
2	100 cm²	GZ	2nd floor BR window sill North facing.	8270
3	100cm²	GZ	2nd floor master BR ceiling fan.	8270
4	100 cm²	GZ	window sill (E) to 2nd floor office.	8270
5	1	GZ	Dining area	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1745	Received by:	Date: 3/28/16	Time: 1745
Relinquished by:	Date: 3/26/16	Time: 0700	Received by:	Date: 3/26/16	Time: 0700
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1959

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1960

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1960

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Work Order Narrative

Work Order: 16-03-1960 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1960.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1960-1-A**	**03/25/16 00:00**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 17:53**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	2.2	50	1.2	1.00	J
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	59	25-121	
Phenol-d6	59	24-113	
Nitrobenzene-d5	63	23-120	
2-Fluorobiphenyl	60	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1960
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	75	19-122	
p-Terphenyl-d14	70	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1960-2-A**	**03/25/16 00:00**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 18:12**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	78	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1960
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	85	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1960
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1960-3-A**	**03/25/16 00:00**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 18:31**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	87	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	89	23-120	
2-Fluorobiphenyl	85	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1960
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	91	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-45**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 13:05**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1960
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR020.D
Acq On : 27 Mar 2016 5:53 pm
Operator : 923
Sample : 16-03-1960-1
Misc : 10UL S7-16-2
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.597	7.9	mg/l	544254	4	8.052	2758750	40.0
Octadecanoic acid	9.367	5.8	mg/l	399534	4	8.052	2758750	40.0
1,3-Dioxolane, ...	10.651	5.8	mg/l	502268	5	10.790	3439550	40.0
Phthalic acid, ...	11.646	6.3	mg/l	543894	5	10.790	3439550	40.0

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR021.D
Acq On : 27 Mar 2016 6:12 pm
Operator : 923
Sample : 16-03-1960-2
Misc : 10UL S7-16-2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR022.D
Acq On : 27 Mar 2016 6:31 pm
Operator : 923
Sample : 16-03-1960-3
Misc : 10UL S7-16-2
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1960
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-45	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:27**	**160326L10**
096-02-006-45	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:46**	**160326L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	183.7	92	172.6	86	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	184.3	92	170.6	85	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	172.7	86	160.4	80	20-124	3-141	7	0-28	
N-Nitroso-di-n-propylamine	200.0	189.8	95	174.5	87	0-230	0-268	8	0-38	
1,2,4-Trichlorobenzene	200.0	180.6	90	165.5	83	44-142	28-158	9	0-28	
Naphthalene	200.0	168.2	84	157.2	79	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	187.8	94	171.6	86	22-147	1-168	9	0-20	
Dimethyl Phthalate	200.0	180.8	90	163.5	82	0-112	0-131	10	0-20	
Acenaphthylene	200.0	174.0	87	161.8	81	33-145	14-164	7	0-20	
Acenaphthene	200.0	182.7	91	171.3	86	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	213.7	107	201.7	101	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	197.9	99	181.0	91	39-139	22-156	9	0-38	
Fluorene	200.0	172.7	86	160.5	80	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	197.5	99	188.0	94	14-176	0-203	5	0-20	
Pyrene	200.0	191.8	96	183.5	92	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	188.5	94	181.2	91	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church	Project # :603287.048 **16-03-1960**
	Client: Los Angeles County	Sampler Name: KIRSA. CAVALIERE PETER HABIB
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100 cm	GUAZE WIPE	Kitchen - North Wall Top of cabinet	8270
[redacted]	100 cm	GUAZE WIPE	Kitchen - Top of REFRIGERATOR	8270
19-GZB			BLANK	

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25	Time: 1100	Received by:	Date: 3/25/16	Time: 1100
Relinquished by:	Date: 3/25/16	Time: 1100	Received by:	Date: 3/25/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1960

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1961

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1961

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Work Order Narrative

Work Order: 16-03-1961 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1961.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1961-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 18:50**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	74	24-113	
Nitrobenzene-d5	81	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1961
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	82	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1961-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 19:09**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	72	25-121	
Phenol-d6	70	24-113	
Nitrobenzene-d5	75	23-120	
2-Fluorobiphenyl	70	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1961
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	72	19-122	
p-Terphenyl-d14	70	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1961
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1961-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 19:29**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	68	25-121	
Phenol-d6	65	24-113	
Nitrobenzene-d5	71	23-120	
2-Fluorobiphenyl	67	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1961
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	67	19-122	
p-Terphenyl-d14	67	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-45**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 13:05**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1961
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR023.D
Acq On : 27 Mar 2016 6:50 pm
Operator : 923
Sample : 16-03-1961-1
Misc : 10UL S7-16-2
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR024.D
Acq On : 27 Mar 2016 7:09 pm
Operator : 923
Sample : 16-03-1961-2
Misc : 10UL S7-16-2
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR025.D
Acq On : 27 Mar 2016 7:29 pm
Operator : 923
Sample : 16-03-1961-3
Misc : 10UL S7-16-2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1961
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-45	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:27**	**160326L10**
096-02-006-45	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:46**	**160326L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	183.7	92	172.6	86	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	184.3	92	170.6	85	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	172.7	86	160.4	80	20-124	3-141	7	0-28	
N-Nitroso-di-n-propylamine	200.0	189.8	95	174.5	87	0-230	0-268	8	0-38	
1,2,4-Trichlorobenzene	200.0	180.6	90	165.5	83	44-142	28-158	9	0-28	
Naphthalene	200.0	168.2	84	157.2	79	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	187.8	94	171.6	86	22-147	1-168	9	0-20	
Dimethyl Phthalate	200.0	180.8	90	163.5	82	0-112	0-131	10	0-20	
Acenaphthylene	200.0	174.0	87	161.8	81	33-145	14-164	7	0-20	
Acenaphthene	200.0	182.7	91	171.3	86	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	213.7	107	201.7	101	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	197.9	99	181.0	91	39-139	22-156	9	0-38	
Fluorene	200.0	172.7	86	160.5	80	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	197.5	99	188.0	94	14-176	0-203	5	0-20	
Pyrene	200.0	191.8	96	183.5	92	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	188.5	94	181.2	91	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1961**
	Client: Los Angeles County	Sampler Name: Frank Weitzel
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] 1	100 cm²	Gauze Wipe	North facing bedroom windowsill	8270
2	100 cm²	Gauze wipe	North facing bedroom windowsill		
3	Blank	Blank	Blank		

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/28/16	Time: 1755	Received by:	Date: 3/29/16	Time: 12:53
Relinquished by:	Date: 3/29/16	Time: 1000	Received by:	Date: 3/29/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1961

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03/26/2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: _____

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WORK ORDER NUMBER: 16-03-1962

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-03-1962

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Work Order Narrative

Work Order: 16-03-1962 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1962.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1962-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 19:48**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	87	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	92	23-120	
2-Fluorobiphenyl	87	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1962
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1962-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 20:07**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	60	25-121	
Phenol-d6	57	24-113	
Nitrobenzene-d5	64	23-120	
2-Fluorobiphenyl	60	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1962
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	59	19-122	
p-Terphenyl-d14	58	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1962-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 20:26**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	66	24-113	
Nitrobenzene-d5	72	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1962
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	74	19-122	
p-Terphenyl-d14	76	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1962-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 20:46**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	0	25-121	2,6
Phenol-d6	1	24-113	2,6
Nitrobenzene-d5	1	23-120	2,6
2-Fluorobiphenyl	4	30-115	2,6

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1962
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	72	19-122	
p-Terphenyl-d14	91	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1962
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-45**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 13:05**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1962
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR026.D
Acq On : 27 Mar 2016 7:48 pm
Operator : 923
Sample : 16-03-1962-1
Misc : 10UL S7-16-2
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR027.D
Acq On : 27 Mar 2016 8:07 pm
Operator : 923
Sample : 16-03-1962-2
Misc : 10UL S7-16-2
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR028.D
Acq On : 27 Mar 2016 8:26 pm
Operator : 923
Sample : 16-03-1962-3
Misc : 10UL S7-16-2
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR029.D
Acq On : 27 Mar 2016 8:46 pm
Operator : 923
Sample : 16-03-1962-4
Misc : 10UL S7-16-2
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1962
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-45	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:27**	**160326L10**
096-02-006-45	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:46**	**160326L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	183.7	92	172.6	86	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	184.3	92	170.6	85	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	172.7	86	160.4	80	20-124	3-141	7	0-28	
N-Nitroso-di-n-propylamine	200.0	189.8	95	174.5	87	0-230	0-268	8	0-38	
1,2,4-Trichlorobenzene	200.0	180.6	90	165.5	83	44-142	28-158	9	0-28	
Naphthalene	200.0	168.2	84	157.2	79	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	187.8	94	171.6	86	22-147	1-168	9	0-20	
Dimethyl Phthalate	200.0	180.8	90	163.5	82	0-112	0-131	10	0-20	
Acenaphthylene	200.0	174.0	87	161.8	81	33-145	14-164	7	0-20	
Acenaphthene	200.0	182.7	91	171.3	86	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	213.7	107	201.7	101	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	197.9	99	181.0	91	39-139	22-156	9	0-38	
Fluorene	200.0	172.7	86	160.5	80	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	197.5	99	188.0	94	14-176	0-203	5	0-20	
Pyrene	200.0	191.8	96	183.5	92	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	188.5	94	181.2	91	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

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WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1962**
	Client: Los Angeles County	Sampler Name: Brian Pierce (Coyote)
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] 1	100cm2	Gauze Wipe	North facing window sill	8270
2	"	"	" " " "	"
3	"	"	North facing tread mill	"
4	N/A	"	" " " "	"

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 11:55	Received by:	Date: 3/25/16	Time: 1455
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1962

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1963

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1963

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Work Order Narrative

Work Order: 16-03-1963 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1963.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1963-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 21:05**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	63	25-121	
Phenol-d6	61	24-113	
Nitrobenzene-d5	67	23-120	
2-Fluorobiphenyl	63	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1963
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	65	19-122	
p-Terphenyl-d14	68	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1963-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 21:24**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	66	24-113	
Nitrobenzene-d5	71	23-120	
2-Fluorobiphenyl	66	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1963
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	67	19-122	
p-Terphenyl-d14	63	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1963-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 21:44**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	1.5	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	90	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	95	23-120	
2-Fluorobiphenyl	88	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1963
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	91	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1963-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS SS**	**03/26/16**	**03/27/16 22:03**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	88	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1963
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	82	19-122	
p-Terphenyl-d14	78	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1963
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-45**	**N/A**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 13:05**	**160326L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1963
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR030.D
Acq On : 27 Mar 2016 9:05 pm
Operator : 923
Sample : 16-03-1963-1
Misc : 10UL S7-16-2
ALS Vial : 30 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR031.D
Acq On : 27 Mar 2016 9:24 pm
Operator : 923
Sample : 16-03-1963-2
Misc : 10UL S7-16-2
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Nonanal	4.185	9.6	mg/l	325416	1	3.564	1353570	40.0

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR032.D
Acq On : 27 Mar 2016 9:44 pm
Operator : 923
Sample : 16-03-1963-3
Misc : 10UL S7-16-2
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160327\
Data File : 27MAR033.D
Acq On : 27 Mar 2016 10:03 pm
Operator : 923
Sample : 16-03-1963-4
Misc : 10UL S7-16-2
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1963
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-45	**LCS**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:27**	**160326L10**
096-02-006-45	**LCSD**	**Solid**	**GC/MS SS**	**03/26/16**	**03/27/16 12:46**	**160326L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	183.7	92	172.6	86	20-120	3-137	6	0-42	
2-Chlorophenol	200.0	184.3	92	170.6	85	23-134	4-152	8	0-40	
1,4-Dichlorobenzene	200.0	172.7	86	160.4	80	20-124	3-141	7	0-28	
N-Nitroso-di-n-propylamine	200.0	189.8	95	174.5	87	0-230	0-268	8	0-38	
1,2,4-Trichlorobenzene	200.0	180.6	90	165.5	83	44-142	28-158	9	0-28	
Naphthalene	200.0	168.2	84	157.2	79	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	187.8	94	171.6	86	22-147	1-168	9	0-20	
Dimethyl Phthalate	200.0	180.8	90	163.5	82	0-112	0-131	10	0-20	
Acenaphthylene	200.0	174.0	87	161.8	81	33-145	14-164	7	0-20	
Acenaphthene	200.0	182.7	91	171.3	86	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	213.7	107	201.7	101	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	197.9	99	181.0	91	39-139	22-156	9	0-38	
Fluorene	200.0	172.7	86	160.5	80	59-121	49-131	7	0-20	
Pentachlorophenol	200.0	197.5	99	188.0	94	14-176	0-203	5	0-20	
Pyrene	200.0	191.8	96	183.5	92	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	188.5	94	181.2	91	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1963 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1963**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Shannan Hill
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
1	100cm²	gauze wipe	N facing ~~bedroom~~ SK Livingroom table	SVOCs 8270
2	100cm²	gauze wipe	N facing top of kitchen Cabinet	SVOCs 8270
3	100cm²	gauze	N facing window sill	SVOCs 8270
4	~~100cm²~~ DLF	~~gauze~~ DLF	~~ALFB~~ DLF blank	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1334	Received by:	Date: 3/29/16	Time: 1339
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by: ESI	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1963

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1964

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-03-1964

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4.1 LCS/LCSD. 19

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Work Order Narrative

Work Order: 16-03-1964 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1964.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1964-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 18:53**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	1.1	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-121	
Phenol-d6	68	24-113	
Nitrobenzene-d5	65	23-120	
2-Fluorobiphenyl	63	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1964
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	68	19-122	
p-Terphenyl-d14	67	18-137	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1964-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 19:13**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	75	25-121	
Phenol-d6	77	24-113	
Nitrobenzene-d5	76	23-120	
2-Fluorobiphenyl	74	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1964
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	80	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1964-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 19:33**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	1.1	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	63	25-121	
Phenol-d6	62	24-113	
Nitrobenzene-d5	62	23-120	
2-Fluorobiphenyl	60	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1964
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	65	19-122	
p-Terphenyl-d14	63	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-42**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:55**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1964
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR025.D
Acq On : 27 Mar 2016 6:53 pm
Operator : 923
Sample : 16-03-1964-1
Misc : 10UL S7-16-23
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR026.D
Acq On : 27 Mar 2016 7:13 pm
Operator : 923
Sample : 16-03-1964-2
Misc : 10UL S7-16-23
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR027.D
Acq On : 27 Mar 2016 7:33 pm
Operator : 923
Sample : 16-03-1964-3
Misc : 10UL S7-16-23
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1964
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-42	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:15**	**160326L11**
096-02-006-42	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:35**	**160326L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.5	90	178.4	89	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	174.7	87	174.3	87	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	169.4	85	171.0	86	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	172.5	86	170.3	85	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	171.0	85	173.1	87	44-142	28-158	1	0-28	
Naphthalene	200.0	167.4	84	167.5	84	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	179.9	90	171.5	86	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	163.8	82	162.9	81	0-112	0-131	1	0-20	
Acenaphthylene	200.0	167.7	84	170.3	85	33-145	14-164	2	0-20	
Acenaphthene	200.0	173.6	87	175.8	88	47-145	31-161	1	0-31	
4-Nitrophenol	200.0	184.9	92	187.6	94	0-132	0-154	1	0-20	
2,4-Dinitrotoluene	200.0	180.3	90	174.9	87	39-139	22-156	3	0-38	
Fluorene	200.0	171.8	86	173.4	87	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	208.0	104	213.6	107	14-176	0-203	3	0-20	
Pyrene	200.0	184.4	92	185.2	93	52-115	42-126	0	0-20	
Butyl Benzyl Phthalate	200.0	176.5	88	176.6	88	0-152	0-177	0	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1964 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1964**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Lucas Wallen
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100 Cm^2	Gauz Wipe	North side study / office desk top	8270
	"	"	North Facing windows sills inside kids room.	"
	"	"	North facing window sills inside kids room	"

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1331	Received by:	Date: 3/25/16	Time: 1331
Relinquished by:	Date: 3/25/16	Time: 1600	Received by:	Date: 3/25/16	Time: 1600
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1964

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1965

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1965

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Work Order Narrative

Work Order: 16-03-1965 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1965.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1965-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 19:53**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	86	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1965
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	91	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1965-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 20:13**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	75	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	74	23-120	
2-Fluorobiphenyl	72	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1965
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	79	19-122	
p-Terphenyl-d14	79	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1965-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 20:33**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	86	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1965
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1965
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1965-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 20:53**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	79	24-113	
Nitrobenzene-d5	75	23-120	
2-Fluorobiphenyl	74	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1965
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	85	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-42**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:55**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1965
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR028.D
Acq On : 27 Mar 2016 7:53 pm
Operator : 923
Sample : 16-03-1965-1
Misc : 10UL S7-16-23
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR029.D
Acq On : 27 Mar 2016 8:13 pm
Operator : 923
Sample : 16-03-1965-2
Misc : 10UL S7-16-23
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR030.D
Acq On : 27 Mar 2016 8:33 pm
Operator : 923
Sample : 16-03-1965-3
Misc : 10UL S7-16-23
ALS Vial : 30 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR031.D
Acq On : 27 Mar 2016 8:53 pm
Operator : 923
Sample : 16-03-1965-4
Misc : 10UL S7-16-23
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1965
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-42	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:15**	**160326L11**
096-02-006-42	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:35**	**160326L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.5	90	178.4	89	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	174.7	87	174.3	87	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	169.4	85	171.0	86	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	172.5	86	170.3	85	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	171.0	85	173.1	87	44-142	28-158	1	0-28	
Naphthalene	200.0	167.4	84	167.5	84	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	179.9	90	171.5	86	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	163.8	82	162.9	81	0-112	0-131	1	0-20	
Acenaphthylene	200.0	167.7	84	170.3	85	33-145	14-164	2	0-20	
Acenaphthene	200.0	173.6	87	175.8	88	47-145	31-161	1	0-31	
4-Nitrophenol	200.0	184.9	92	187.6	94	0-132	0-154	1	0-20	
2,4-Dinitrotoluene	200.0	180.3	90	174.9	87	39-139	22-156	3	0-38	
Fluorene	200.0	171.8	86	173.4	87	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	208.0	104	213.6	107	14-176	0-203	3	0-20	
Pyrene	200.0	184.4	92	185.2	93	52-115	42-126	0	0-20	
Butyl Benzyl Phthalate	200.0	176.5	88	176.6	88	0-152	0-177	0	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1965**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Kim Seubert
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
1	100 cm²	~~GH~~ 2A GZ	2nd Floor bedroom North facing	8270
2	100 cm²	GZ	2nd floor Master bedroom ceiling fan. N facing.	8270
3	100 cm²	GZ	2nd floor bedroom ceiling fan North facing.	8270
4	100 cm²	GZ	2nd floor Master bath sill N. facing.	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1340	Received by:	Date: 3/25/16	Time: 1340
Relinquished by:	Date: 3/26/16	Time: 1000	Received by: ESE	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1965

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☐	☒	☐
☐ Sampling date ☒ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☒
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☒
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☒ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1966

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1966

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Work Order Narrative

Work Order: 16-03-1966 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1966.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1966-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 21:13**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	1.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	85	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1966
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	89	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1966-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 21:32**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	86	25-121	
Phenol-d6	89	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1966
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1966-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 21:52**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	88	25-121	
Phenol-d6	89	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	84	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1966
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	90	19-122	
p-Terphenyl-d14	83	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-42**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:55**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1966
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR032.D
Acq On : 27 Mar 2016 9:13 pm
Operator : 923
Sample : 16-03-1966-1
Misc : 10UL S7-16-23
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.319	7.2	mg/l	624700	4	7.752	3478350	40.0

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Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR033.D
Acq On : 27 Mar 2016 9:32 pm
Operator : 923
Sample : 16-03-1966-2
Misc : 10UL S7-16-23
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR034.D
Acq On : 27 Mar 2016 9:52 pm
Operator : 923
Sample : 16-03-1966-3
Misc : 10UL S7-16-23
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1966
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-42	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:15**	**160326L11**
096-02-006-42	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:35**	**160326L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.5	90	178.4	89	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	174.7	87	174.3	87	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	169.4	85	171.0	86	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	172.5	86	170.3	85	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	171.0	85	173.1	87	44-142	28-158	1	0-28	
Naphthalene	200.0	167.4	84	167.5	84	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	179.9	90	171.5	86	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	163.8	82	162.9	81	0-112	0-131	1	0-20	
Acenaphthylene	200.0	167.7	84	170.3	85	33-145	14-164	2	0-20	
Acenaphthene	200.0	173.6	87	175.8	88	47-145	31-161	1	0-31	
4-Nitrophenol	200.0	184.9	92	187.6	94	0-132	0-154	1	0-20	
2,4-Dinitrotoluene	200.0	180.3	90	174.9	87	39-139	22-156	3	0-38	
Fluorene	200.0	171.8	86	173.4	87	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	208.0	104	213.6	107	14-176	0-203	3	0-20	
Pyrene	200.0	184.4	92	185.2	93	52-115	42-126	0	0-20	
Butyl Benzyl Phthalate	200.0	176.5	88	176.6	88	0-152	0-177	0	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048	16-03-1966
24 HOURS AS POSSIBLE	[redacted]		
	Client: Los Angeles County	Sampler Name: ZACH FREEMAN	
	Project Location: Aliso Canyon	Date: 3/25/14	

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100 cm²	GAUZE WIPE	NORTH FACING ~~WOODEN~~ JG GLASS TABLE ADJACENT TO WINDOW	8270
	100 cm²	GAUZE WIPE	SOUTH FACING GARAGE TABLE TOP NEAR WINDOW	8270
	100 cm²	GAUZE WIPE	NORTH FACING WINDOW SILL ADJACENT TO FIREPLACE.	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/14	Time:	Received by:	Date: 3/25/14	Time: 1910
Relinquished by:	Date: 3/26/14	Time: 1000	Received by: ECG	Date: 3/26/14	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1966

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1967

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

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Work Order Number: 16-03-1967

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Work Order Narrative

Work Order: 16-03-1967 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1967.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1967
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	16-03-1967-1-A	03/25/16 00:00	Wipe	GC/MS TT	03/26/16	03/28/16 02:51	160326L11

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1967
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-121	
Phenol-d6	69	24-113	
Nitrobenzene-d5	64	23-120	
2-Fluorobiphenyl	64	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1967
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	75	19-122	
p-Terphenyl-d14	75	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1967
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1967-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 03:11**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1967
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	72	25-121	
Phenol-d6	75	24-113	
Nitrobenzene-d5	72	23-120	
2-Fluorobiphenyl	72	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1967
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	81	19-122	
p-Terphenyl-d14	79	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1967
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-42**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:55**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1967
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1967
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR049.D
Acq On : 28 Mar 2016 2:51 am
Operator : 923
Sample : 16-03-1967-1
Misc : 10UL S7-16-2
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethanol, 2-(2-e...	3.168	4.3	mg/l	192823	1	3.291	1802360	40.0
Morpholine, 4-p...	10.255	13.9	mg/l	1618280	5	10.416	4657100	40.0
1,3-Dioxolane, ...	10.303	45.7	mg/l	5322090	5	10.416	4657100	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR050.D
Acq On : 28 Mar 2016 3:11 am
Operator : 923
Sample : 16-03-1967-2
Misc : 10UL S7-16-2
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Morpholine, 4-p...	10.255	14.2	mg/l	1643340	5	10.416	4627610	40.0
1,3-Dioxolane, ...	10.303	40.4	mg/l	4673440	5	10.416	4627610	40.0
Octadecane, 1-(...	12.983	11.3	mg/l	1280140	6	12.202	4542180	40.0
16-Hentriaconta...	13.732	15.3	mg/l	1733570	6	12.202	4542180	40.0
Octadecanoic ac...	14.898	12.6	mg/l	1433700	6	12.202	4542180	40.0

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1967
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-42	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:15**	**160326L11**
096-02-006-42	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:35**	**160326L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.5	90	178.4	89	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	174.7	87	174.3	87	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	169.4	85	171.0	86	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	172.5	86	170.3	85	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	171.0	85	173.1	87	44-142	28-158	1	0-28	
Naphthalene	200.0	167.4	84	167.5	84	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	179.9	90	171.5	86	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	163.8	82	162.9	81	0-112	0-131	1	0-20	
Acenaphthylene	200.0	167.7	84	170.3	85	33-145	14-164	2	0-20	
Acenaphthene	200.0	173.6	87	175.8	88	47-145	31-161	1	0-31	
4-Nitrophenol	200.0	184.9	92	187.6	94	0-132	0-154	1	0-20	
2,4-Dinitrotoluene	200.0	180.3	90	174.9	87	39-139	22-156	3	0-38	
Fluorene	200.0	171.8	86	173.4	87	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	208.0	104	213.6	107	14-176	0-203	3	0-20	
Pyrene	200.0	184.4	92	185.2	93	52-115	42-126	0	0-20	
Butyl Benzyl Phthalate	200.0	176.5	88	176.6	88	0-152	0-177	0	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1967 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-1967**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Devin Berman
	Project Location: Aliso Canyon	Date: 3/28/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100cm²	Gauze wipe	(N) facing livingroom window sill and track	8270
			(N) facing living Room on window sill	

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: Devin Berman	Date: 3/28/16	Time: 1605	Received by:	Date: 3/28/16	Time: 1605
Relinquished by:	Date: 3/28/16	Time: 1900	Received by: ECS	Date: 3/29/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1967

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1968

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/29/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1968

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Work Order Narrative

Work Order: 16-03-1968 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1968.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1968-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 01:31**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	64	25-121	
Phenol-d6	66	24-113	
Nitrobenzene-d5	64	23-120	
2-Fluorobiphenyl	64	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1968
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	77	19-122	
p-Terphenyl-d14	75	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1968-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 01:51**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	75	25-121	
Phenol-d6	78	24-113	
Nitrobenzene-d5	74	23-120	
2-Fluorobiphenyl	72	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1968
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	77	19-122	
p-Terphenyl-d14	75	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1968-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 02:11**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	86	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1968
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	83	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1968
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1968-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 02:31**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	74	25-121	
Phenol-d6	75	24-113	
Nitrobenzene-d5	73	23-120	
2-Fluorobiphenyl	71	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1968
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	77	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-42**	**N/A**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:55**	**160326L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1968
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR045.D
Acq On : 28 Mar 2016 1:31 am
Operator : 923
Sample : 16-03-1968-1
Misc : 10UL S7-16-2
ALS Vial : 45 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Octadecane	11.886	4.3	mg/l	458837	6	12.202	4296000	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR046.D
Acq On : 28 Mar 2016 1:51 am
Operator : 923
Sample : 16-03-1968-2
Misc : 10UL S7-16-2
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	8.314	5.0	mg/l	431520	4	7.747	3453740	40.0

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR047.D
Acq On : 28 Mar 2016 2:11 am
Operator : 923
Sample : 16-03-1968-3
Misc : 10UL S7-16-2
ALS Vial : 47 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR048.D
Acq On : 28 Mar 2016 2:31 am
Operator : 923
Sample : 16-03-1968-4
Misc : 10UL S7-16-2
ALS Vial : 48 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1968
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-42	**LCS**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:15**	**160326L11**
096-02-006-42	**LCSD**	**Solid**	**GC/MS TT**	**03/26/16**	**03/27/16 16:35**	**160326L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	180.5	90	178.4	89	20-120	3-137	1	0-42	
2-Chlorophenol	200.0	174.7	87	174.3	87	23-134	4-152	0	0-40	
1,4-Dichlorobenzene	200.0	169.4	85	171.0	86	20-124	3-141	1	0-28	
N-Nitroso-di-n-propylamine	200.0	172.5	86	170.3	85	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	171.0	85	173.1	87	44-142	28-158	1	0-28	
Naphthalene	200.0	167.4	84	167.5	84	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	200.0	179.9	90	171.5	86	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	163.8	82	162.9	81	0-112	0-131	1	0-20	
Acenaphthylene	200.0	167.7	84	170.3	85	33-145	14-164	2	0-20	
Acenaphthene	200.0	173.6	87	175.8	88	47-145	31-161	1	0-31	
4-Nitrophenol	200.0	184.9	92	187.6	94	0-132	0-154	1	0-20	
2,4-Dinitrotoluene	200.0	180.3	90	174.9	87	39-139	22-156	3	0-38	
Fluorene	200.0	171.8	86	173.4	87	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	208.0	104	213.6	107	14-176	0-203	3	0-20	
Pyrene	200.0	184.4	92	185.2	93	52-115	42-126	0	0-20	
Butyl Benzyl Phthalate	200.0	176.5	88	176.6	88	0-152	0-177	0	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1968**
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 3.25.16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100 cm^2	Gauze Wipe	Master Bedroom, bottom of door seal (East)	8270
	100cm^2	Gauze Wipe	Master Bedroom, on top of Cabinet, Adj. to N/E Window	8270
	100cm^2	Gauze Wipe	Window seal, office	8270
	100cm^2	Gauze Wip	Living Room Window seal 2nd Window from door	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@EurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3.25.16	Time: 1358	Received by:	Date: 3/27/16	Time: 1310
Relinquished by:	Date: 3.26.16	Time: 10:00	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1968

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1969

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1969

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Work Order Narrative

Work Order: 16-03-1969 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1969.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1969-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 00:12**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	75	25-121	
Phenol-d6	77	24-113	
Nitrobenzene-d5	74	23-120	
2-Fluorobiphenyl	71	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1969
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	77	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1969-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 00:32**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	82	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1969
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	85	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1969-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 00:51**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	73	25-121	
Phenol-d6	74	24-113	
Nitrobenzene-d5	72	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1969
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	75	19-122	
p-Terphenyl-d14	73	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1969
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1969-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 01:11**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	4.3	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	90	25-121	
Phenol-d6	92	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1969
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-44**	**N/A**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:55**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1969
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	97	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR041.D
Acq On : 28 Mar 2016 12:12 am
Operator : 923
Sample : 16-03-1969-1
Misc : 10UL S7-16-2
ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR042.D
Acq On : 28 Mar 2016 12:32 am
Operator : 923
Sample : 16-03-1969-2
Misc : 10UL S7-16-2
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR043.D
Acq On : 28 Mar 2016 12:51 am
Operator : 923
Sample : 16-03-1969-3
Misc : 10UL S7-16-2
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR044.D
Acq On : 28 Mar 2016 1:11 am
Operator : 923
Sample : 16-03-1969-4
Misc : 10UL S7-16-2
ALS Vial : 44 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1969
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-44	**LCS**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:18**	**160326L15**
096-02-006-44	**LCSD**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:37**	**160326L15**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	159.3	80	159.7	80	20-120	3-137	0	0-42	
2-Chlorophenol	200.0	166.7	83	168.2	84	23-134	4-152	1	0-40	
1,4-Dichlorobenzene	200.0	161.6	81	158.9	79	20-124	3-141	2	0-28	
N-Nitroso-di-n-propylamine	200.0	186.7	93	184.9	92	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	168.6	84	164.5	82	44-142	28-158	3	0-28	
Naphthalene	200.0	160.3	80	157.1	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	172.1	86	170.2	85	22-147	1-168	1	0-20	
Dimethyl Phthalate	200.0	159.8	80	159.3	80	0-112	0-131	0	0-20	
Acenaphthylene	200.0	157.3	79	156.0	78	33-145	14-164	1	0-20	
Acenaphthene	200.0	167.9	84	167.6	84	47-145	31-161	0	0-31	
4-Nitrophenol	200.0	169.7	85	175.1	88	0-132	0-154	3	0-20	
2,4-Dinitrotoluene	200.0	186.6	93	187.2	94	39-139	22-156	0	0-38	
Fluorene	200.0	155.4	78	154.3	77	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	171.3	86	174.3	87	14-176	0-203	2	0-20	
Pyrene	200.0	189.8	95	181.9	91	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	195.9	98	194.6	97	0-152	0-177	1	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-1969 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1969**
	Client: Los Angeles County	Sampler Name: Richard (Diego)
	Project Location: Aliso Canyon	Date: 3/25

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100 cm²	gauze wipe	window sill in Diego room area.	8270
2		100 cm²	gauze wipe	top of refrigerator	8270
3		100 cm²	gauze wipe	Control.	8270
4		100 cm²	gauze wipe.	window sill. upstairs Painted metal Mont Fair	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1512	Received by:	Date: 3/28/16	Time: 13:20
Relinquished by:	Date: 3/26/16	Time: 0900	Received by: EG	Date: 3/26/16	Time: 0900
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1969

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑ 3/26/16	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2oz CGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03- 1969

SAMPLE ANOMALY REPORT

DATE: 03 / 26 / 2016

SAMPLES, CONTAINERS, AND LABELS:

Comments

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☒ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☒ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis

labeled as
(-1) RE10-GZ
(-2) RES23-GZ
(-3) RES23-GZB
(-4) RES39-GZ

- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: SR

Reviewed by: 1017

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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WORK ORDER NUMBER: 16-03-1970

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1970

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Work Order Narrative

Work Order: 16-03-1970 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1970.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1970-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 22:12**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	82	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1970
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	84	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1970-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/27/16 22:32**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1970
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1970-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS TT**	**03/26/16**	**03/28/16 09:13**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	87	25-121	
Phenol-d6	87	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1970
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received:	03/26/16
Work Order:	16-03-1970
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	ug/smpl
	Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-44**	**N/A**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:55**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1970
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	97	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR035.D
Acq On : 27 Mar 2016 10:12 pm
Operator : 923
Sample : 16-03-1970-1
Misc : 10UL S7-16-2
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR036.D
Acq On : 27 Mar 2016 10:32 pm
Operator : 923
Sample : 16-03-1970-2
Misc : 10UL S7-16-2
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160327\
Data File : 27MAR051.D
Acq On : 28 Mar 2016 9:13 am
Operator : 923
Sample : 16-03-1970-3
Misc : 10UL S7-16-2
ALS Vial : 51 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.319	4.5	mg/l	491081	4	7.752	4318080	40.0

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1970
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-44	**LCS**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:18**	**160326L15**
096-02-006-44	**LCSD**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:37**	**160326L15**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	159.3	80	159.7	80	20-120	3-137	0	0-42	
2-Chlorophenol	200.0	166.7	83	168.2	84	23-134	4-152	1	0-40	
1,4-Dichlorobenzene	200.0	161.6	81	158.9	79	20-124	3-141	2	0-28	
N-Nitroso-di-n-propylamine	200.0	186.7	93	184.9	92	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	168.6	84	164.5	82	44-142	28-158	3	0-28	
Naphthalene	200.0	160.3	80	157.1	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	172.1	86	170.2	85	22-147	1-168	1	0-20	
Dimethyl Phthalate	200.0	159.8	80	159.3	80	0-112	0-131	0	0-20	
Acenaphthylene	200.0	157.3	79	156.0	78	33-145	14-164	1	0-20	
Acenaphthene	200.0	167.9	84	167.6	84	47-145	31-161	0	0-31	
4-Nitrophenol	200.0	169.7	85	175.1	88	0-132	0-154	3	0-20	
2,4-Dinitrotoluene	200.0	186.6	93	187.2	94	39-139	22-156	0	0-38	
Fluorene	200.0	155.4	78	154.3	77	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	171.3	86	174.3	87	14-176	0-203	2	0-20	
Pyrene	200.0	189.8	95	181.9	91	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	195.9	98	194.6	97	0-152	0-177	1	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-03-1970**
	Client: Los Angeles County	Sampler Name: Devin Berman
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1 [redacted]	100 cm²	Gauze wipe	(N) facing livingroom, side Stand	8270
2	100 cm²	Gauze wipe	(N) facing living room on (N) window frame	8270
3	100 cm²	Gauze Wipe	(N) facing living room on windows: N	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/25/16	Time: 1421	Received by:	Date: 3/25/16	Time: 1421
Relinquished by:	Date: 3/26/16	Time: 10:00	Received by: ESS	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1990

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-1971

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/28/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-1971

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Work Order Narrative

Work Order: 16-03-1971 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/16. They were assigned to Work Order 16-03-1971.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1971-1-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 17:13**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	79	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1971
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	82	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1971-2-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 17:31**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	17	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	74	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	73	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1971
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	84	19-122	
p-Terphenyl-d14	83	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1971-3-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 17:50**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	85	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	98	23-120	
2-Fluorobiphenyl	85	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1971
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	90	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-1971-4-A**	**03/25/16 00:00**	**Wipe**	**GC/MS CCC**	**03/26/16**	**03/27/16 18:08**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	2.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	70	25-121	
Phenol-d6	73	24-113	
Nitrobenzene-d5	78	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/26/16
17781 Cowan, Suite 100	Work Order:	16-03-1971
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	81	19-122	
p-Terphenyl-d14	85	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-44**	**N/A**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:55**	**160326L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	83	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/26/16
17781 Cowan, Suite 100		Work Order:	16-03-1971
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	97	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR018.D
Acq On : 27 Mar 2016 5:13 pm
Operator : 923
Sample : 16-03-1971-1
Misc : 10UL S7-16-2
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR019.D
Acq On : 27 Mar 2016 5:31 pm
Operator : 923
Sample : 16-03-1971-2
Misc : 10UL S7-16-2
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR020.D
Acq On : 27 Mar 2016 5:50 pm
Operator : 923
Sample : 16-03-1971-3
Misc : 10UL S7-16-2
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160327\
Data File : 27MAR021.D
Acq On : 27 Mar 2016 6:08 pm
Operator : 923
Sample : 16-03-1971-4
Misc : 10UL S7-16-2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/26/16
Work Order: 16-03-1971
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-44	**LCS**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:18**	**160326L15**
096-02-006-44	**LCSD**	**Solid**	**GC/MS CCC**	**03/26/16**	**03/27/16 16:37**	**160326L15**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	159.3	80	159.7	80	20-120	3-137	0	0-42	
2-Chlorophenol	200.0	166.7	83	168.2	84	23-134	4-152	1	0-40	
1,4-Dichlorobenzene	200.0	161.6	81	158.9	79	20-124	3-141	2	0-28	
N-Nitroso-di-n-propylamine	200.0	186.7	93	184.9	92	0-230	0-268	1	0-38	
1,2,4-Trichlorobenzene	200.0	168.6	84	164.5	82	44-142	28-158	3	0-28	
Naphthalene	200.0	160.3	80	157.1	79	21-133	2-152	2	0-20	
4-Chloro-3-Methylphenol	200.0	172.1	86	170.2	85	22-147	1-168	1	0-20	
Dimethyl Phthalate	200.0	159.8	80	159.3	80	0-112	0-131	0	0-20	
Acenaphthylene	200.0	157.3	79	156.0	78	33-145	14-164	1	0-20	
Acenaphthene	200.0	167.9	84	167.6	84	47-145	31-161	0	0-31	
4-Nitrophenol	200.0	169.7	85	175.1	88	0-132	0-154	3	0-20	
2,4-Dinitrotoluene	200.0	186.6	93	187.2	94	39-139	22-156	0	0-38	
Fluorene	200.0	155.4	78	154.3	77	59-121	49-131	1	0-20	
Pentachlorophenol	200.0	171.3	86	174.3	87	14-176	0-203	2	0-20	
Pyrene	200.0	189.8	95	181.9	91	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	195.9	98	194.6	97	0-152	0-177	1	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

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WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048	16-03-1971
24 HOURS AS POSSIBLE	[redacted]		
	Client: Los Angeles County	Sampler Name: Devin Berman	
	Project Location: Aliso Canyon	Date: 3/25/16	

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100 cm²	Gauze Wipe	North facing kitchen window sill	8270
2		100 cm²	Gauze Wipe	China hut top in Livingroom North facing	8270
3			Gauze Wipe	Blank	8270
4		100 cm².	↓	N facing living room, west side, middle shelf	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: Devin Berman	Date: 3/25/16	Time: 1654	Received by:	Date: 3/25/16	Time: 1654
Relinquished by:	Date: 3/26	Time: 10:00	Received by:	Date: 3/26/16	Time: 1000
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-03- 1971

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: LEIGHTON

DATE: 03 / 26 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 5.5 °C (w/ CF): 5.8 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: SR

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WORK ORDER NUMBER: 16-03-2128

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-2128

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Work Order Narrative

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2128.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-1-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 17:06**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	5.8	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	90	25-121	
Phenol-d6	92	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	103	19-122	
p-Terphenyl-d14	98	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 4 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-2-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 17:25**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	107	25-121	
Phenol-d6	106	24-113	
Nitrobenzene-d5	100	23-120	
2-Fluorobiphenyl	96	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	110	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-3-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 17:44**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	101	25-121	
Phenol-d6	98	24-113	
Nitrobenzene-d5	98	23-120	
2-Fluorobiphenyl	94	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	105	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-4-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 18:03**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	68	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	67	23-120	
2-Fluorobiphenyl	76	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	108	19-122	
p-Terphenyl-d14	99	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-5-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 18:23**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	2.5	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	82	25-121	
Phenol-d6	81	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	103	19-122	
p-Terphenyl-d14	95	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-6-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 18:42**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	101	25-121	
Phenol-d6	101	24-113	
Nitrobenzene-d5	98	23-120	
2-Fluorobiphenyl	94	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 18 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	107	19-122	
p-Terphenyl-d14	98	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 19 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-7-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 19:01**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	5.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	69	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	74	23-120	
2-Fluorobiphenyl	88	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 21 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	105	19-122	
p-Terphenyl-d14	94	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 22 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-8-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 19:20**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	19	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	93	25-121	
Phenol-d6	90	24-113	
Nitrobenzene-d5	91	23-120	
2-Fluorobiphenyl	90	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 24 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	91	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 25 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-9-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 19:40**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	92	25-121	
Phenol-d6	90	24-113	
Nitrobenzene-d5	92	23-120	
2-Fluorobiphenyl	89	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 27 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	99	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 28 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-10-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 19:59**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	99	25-121	
Phenol-d6	95	24-113	
Nitrobenzene-d5	101	23-120	
2-Fluorobiphenyl	94	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 30 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	105	19-122	
p-Terphenyl-d14	95	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-11-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 20:18**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	92	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	87	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 33 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 34 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2128-12-A**	**03/28/16 00:00**	**Wipe**	**GC/MS SS**	**03/30/16**	**03/30/16 20:37**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	106	25-121	
Phenol-d6	102	24-113	
Nitrobenzene-d5	106	23-120	
2-Fluorobiphenyl	101	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 36 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	107	19-122	
p-Terphenyl-d14	98	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2128
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 37 of 39

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-47**	**N/A**	**Solid**	**GC/MS SS**	**03/30/16**	**03/30/16 15:29**	**160330L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	97	25-121	
Phenol-d6	91	24-113	
Nitrobenzene-d5	100	23-120	
2-Fluorobiphenyl	91	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2128
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 39 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	90	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR020.D
Acq On : 30 Mar 2016 5:06 pm
Operator : 923
Sample : 16-03-2128-1
Misc : 10UL S7-16-25
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
3,6,9,12,15,18,...	12.165	236.7	mg/l	35373400	6	12.668	5976890	40.0
Phthalic acid, ...	14.058	5.3	mg/l	792331	6	12.668	5976890	40.0
Phthalic acid, ...	14.545	9.8	mg/l	1469180	6	12.668	5976890	40.0

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR021.D
Acq On : 30 Mar 2016 5:25 pm
Operator : 923
Sample : 16-03-2128-2
Misc : 10UL S7-16-25
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR022.D
Acq On : 30 Mar 2016 5:44 pm
Operator : 923
Sample : 16-03-2128-3
Misc : 10UL S7-16-25
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR023.D
Acq On : 30 Mar 2016 6:03 pm
Operator : 923
Sample : 16-03-2128-4
Misc : 10UL S7-16-25
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR024.D
Acq On : 30 Mar 2016 6:23 pm
Operator : 923
Sample : 16-03-2128-5
Misc : 10UL S7-16-25
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	# RT	Resp	Conc
1,2-Benzenedica...	14.545	5.5	mg/l	651397	6 12.668	4749210	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR025.D
Acq On : 30 Mar 2016 6:42 pm
Operator : 923
Sample : 16-03-2128-6
Misc : 10UL S7-16-25
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethanol, 2-(2-e...	3.436	5.0	mg/l	269249	1	3.564	2137770	40.0
Phthalic anhydride	5.645	8.6	mg/l	645667	2	4.821	2992220	40.0
Phthalic acid, ...	14.545	6.2	mg/l	773570	6	12.668	4968620	40.0

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR026.D
Acq On : 30 Mar 2016 7:01 pm
Operator : 923
Sample : 16-03-2128-7
Misc : 10UL S7-16-25
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR027.D
Acq On : 30 Mar 2016 7:20 pm
Operator : 923
Sample : 16-03-2128-8
Misc : 10UL S7-16-25
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR028.D
Acq On : 30 Mar 2016 7:40 pm
Operator : 923
Sample : 16-03-2128-9
Misc : 10UL S7-16-25
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR029.D
Acq On : 30 Mar 2016 7:59 pm
Operator : 923
Sample : 16-03-2128-10
Misc : 10UL S7-16-25
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR030.D
Acq On : 30 Mar 2016 8:18 pm
Operator : 923
Sample : 16-03-2128-11
Misc : 10UL S7-16-25
ALS Vial : 30 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160330\
Data File : 30MAR031.D
Acq On : 30 Mar 2016 8:37 pm
Operator : 923
Sample : 16-03-2128-12
Misc : 10UL S7-16-25
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2128
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-47	**LCS**	**Solid**	**GC/MS SS**	**03/30/16**	**03/30/16 15:48**	**160330L01**
096-02-006-47	**LCSD**	**Solid**	**GC/MS SS**	**03/30/16**	**03/30/16 16:07**	**160330L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	186.3	93	205.1	103	20-120	3-137	10	0-42	
2-Chlorophenol	200.0	185.2	93	205.6	103	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	182.0	91	198.8	99	20-124	3-141	9	0-28	
N-Nitroso-di-n-propylamine	200.0	182.1	91	203.0	102	0-230	0-268	11	0-38	
1,2,4-Trichlorobenzene	200.0	185.4	93	204.8	102	44-142	28-158	10	0-28	
Naphthalene	200.0	176.0	88	193.9	97	21-133	2-152	10	0-20	
4-Chloro-3-Methylphenol	200.0	186.4	93	200.7	100	22-147	1-168	7	0-20	
Dimethyl Phthalate	200.0	177.3	89	194.0	97	0-112	0-131	9	0-20	
Acenaphthylene	200.0	174.2	87	193.6	97	33-145	14-164	11	0-20	
Acenaphthene	200.0	190.0	95	208.4	104	47-145	31-161	9	0-31	
4-Nitrophenol	200.0	204.7	102	225.7	113	0-132	0-154	10	0-20	
2,4-Dinitrotoluene	200.0	195.9	98	216.4	108	39-139	22-156	10	0-38	
Fluorene	200.0	179.9	90	194.0	97	59-121	49-131	8	0-20	
Pentachlorophenol	200.0	167.2	84	179.8	90	14-176	0-203	7	0-20	
Pyrene	200.0	188.4	94	207.0	104	52-115	42-126	9	0-20	
Butyl Benzyl Phthalate	200.0	149.4	75	165.2	83	0-152	0-177	10	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2128**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Shannon Hill/Ivan Myers
	Project Location: Aliso Canyon	Date: 3/28/16

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100cm2	gauze wipe	2-138 Classroom 10 NW window sill	SVOC 8270
2		100cm2	gauze wipe	MPR Push bars on N exit	SVOC 8270
3		100cm2	gauze wipe	Library NW corner on book shelf	SVOC 8270
4		n/a	gauze wipe	Blank	SVOC 8270
5		100cm2	gauze wipe	4-109 NE window sill	SVOC 8270
6		100cm2	GAUZE WIPE	4-210 NW WINDOW SILL	SVOC 8270
7		100cm2	gauze wipe	Classroom 14 NW cabinet top	SVOC 8270
8		100cm2	gauze wipe	Classroom 8 NE cabinet top	SVOC 8270
9		100cm2	gauze wipe	Classroom K2 NW corner teacher's desk	SVOC 8270
10		100cm2	gauze wipe	Library NW cabinet top	SVOC 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:		Date: 3/28/16	Time: 1110	Received by:		Date:	Time:
Relinquished by:		Date: 3/29/16	Time: 1300	Received by:		Date:	Time:
Relinquished by:		Date: 3/30/16	Time: 0752	Received by:		Date: 3/30/16	Time: 0752

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (2128)
	Client: Los Angeles County	Sampler Name: Shannon Hill / Ivan Myers
	Project Location: Aliso Canyon	Date: 3/29/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]				
11	100 cm²	Gauze wipe	Conference Rm (staff lounge) NE cabinet top	SVOC 8270
12	n/a	Gauze wipe	Blank	SVOC 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/29/16	Time: 1600	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1500	Received by:	Date:	Time:
Relinquished by:	Date: 3/30/16	Time: 0752	Received by:	Date: 3/30/16	Time: 0752

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2128

FedEx Express Package US Airbill

FedEx Tracking Number 8075 8854 6416

Form ID No. 0215

SLA1

From

Date 3/29/16

Sender's Name Ines Parr Phone 817 2356266

Company LEIGHTON CONSULTING

Address 17761 COWAN

Dept./Floor/Suite/Room

City IRVINE State CA ZIP 92614-6009

Your Internal Billing Reference 603278.048

To

Recipient's Name Nicole Scott Phone 714 895-5494

Company Eurofins Calscience Inc

Address 7440 Lincoln Wy

Cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Enter this line for the HOLD location address or for continuation of your shipping address.

City Garden Grove State CA ZIP 92841

0118511102

8075 8854 6416

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [x] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 1 Total Weight 10 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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XLT

151989 REV 09/04 MM

First Overnight®

91 APVA

TRK# 0215 8075 8854 6416

WED - 30 MAR 8:0
FIRST OVERNIG

92841
CA-US SN

ORIGIN ID:JTOA (949) 477-4040
LEIGHTON CONSULTING
17781 COWAN
IRVINE, CA 926146009
UNITED STATES US

TO NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:
DEPT:

SHIP DATE: 29MAR16
ACTWGT: 9.90 LB
CAD: 70FC1622
DIMS: 0X0X0 IN
BILL SENDER

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WORK ORDER NUMBER: 16-03- 2128

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

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CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: 15

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WORK ORDER NUMBER: 16-03-2129

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-2129

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Work Order Narrative

Work Order: 16-03-2129 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2129.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2129-1-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 12:33**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	17	50	1.1	1.00	J
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	24	50	2.0	1.00	J
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	91	25-121	
Phenol-d6	94	24-113	
Nitrobenzene-d5	90	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2129
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	97	19-122	
p-Terphenyl-d14	90	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2129
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 4 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2129-2-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 12:53**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	92	25-121	
Phenol-d6	93	24-113	
Nitrobenzene-d5	92	23-120	
2-Fluorobiphenyl	88	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2129
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	97	19-122	
p-Terphenyl-d14	91	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2129-3-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 13:13**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	84	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	84	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2129
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	90	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2129-4-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 13:32**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	1.7	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	86	25-121	
Phenol-d6	87	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	82	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2129
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	90	19-122	
p-Terphenyl-d14	86	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2129
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 13 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2129-5-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 13:52**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	91	25-121	
Phenol-d6	94	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2129
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 15 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	95	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-46**	**N/A**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 12:04**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2129
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 18 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR006.D
Acq On : 30 Mar 2016 12:33 pm
Operator : 923
Sample : 16-03-2129-1
Misc : 10UL S7-16-24
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Phthalic acid, ...	10.475	4.8	mg/l	567834	5	10.405	4718910	40.0
Phthalic acid, ...	10.940	4.1	mg/l	479696	5	10.405	4718910	40.0
Phthalic acid, ...	11.753	6.2	mg/l	737223	6	12.191	4720030	40.0
Phthalic acid, ...	12.117	7.6	mg/l	892714	6	12.191	4720030	40.0
Phthalic acid, ...	13.015	7.6	mg/l	892232	6	12.191	4720030	40.0

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR007.D
Acq On : 30 Mar 2016 12:53 pm
Operator : 923
Sample : 16-03-2129-2
Misc : 10UL S7-16-24
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR008.D
Acq On : 30 Mar 2016 1:13 pm
Operator : 923
Sample : 16-03-2129-3
Misc : 10UL S7-16-24
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR009.D
Acq On : 30 Mar 2016 1:32 pm
Operator : 923
Sample : 16-03-2129-4
Misc : 10UL S7-16-24
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR010.D
Acq On : 30 Mar 2016 1:52 pm
Operator : 923
Sample : 16-03-2129-5
Misc : 10UL S7-16-24
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2129
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-46	**LCS**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:04**	**160330L02**
096-02-006-46	**LCSD**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:24**	**160330L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	181.2	91	196.1	98	20-120	3-137	8	0-42	
2-Chlorophenol	200.0	179.4	90	199.2	100	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	174.3	87	193.8	97	20-124	3-141	11	0-28	
N-Nitroso-di-n-propylamine	200.0	179.1	90	195.5	98	0-230	0-268	9	0-38	
1,2,4-Trichlorobenzene	200.0	183.5	92	192.2	96	44-142	28-158	5	0-28	
Naphthalene	200.0	172.5	86	184.3	92	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	184.3	92	193.4	97	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	178.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	170.1	85	181.7	91	33-145	14-164	7	0-20	
Acenaphthene	200.0	176.5	88	187.2	94	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	173.1	87	182.6	91	0-132	0-154	5	0-20	
2,4-Dinitrotoluene	200.0	187.7	94	200.3	100	39-139	22-156	7	0-38	
Fluorene	200.0	174.5	87	185.0	93	59-121	49-131	6	0-20	
Pentachlorophenol	200.0	187.0	94	210.6	105	14-176	0-203	12	0-20	
Pyrene	200.0	180.3	90	194.6	97	52-115	42-126	8	0-20	
Butyl Benzyl Phthalate	200.0	168.3	84	178.9	89	0-152	0-177	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-2129 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2129**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Howard Pickering / Robin Fontenot
	Project Location: Aliso Canyon	Date: March 28, 2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1 [redacted]	100cm²	Gauze	NorthWest, Boy's Bedroom, Window Sill	8270
2	100cm²	Gauze	Playroom, window sill	8270
3	100 cm²	Gauze	Kitchen, Sliding glass door, lower frame	8270
4	100cm²	Gauze	Family room - windowsill	8270
5	100cm²	Gauze	b	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/29/16	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 2100	Received by:	Date:	Time:
Relinquished by:	Date: 3/30/16	Time: 0452	Received by:	Date:	Time:

Fedex 3/30/16 0452 Wchatech 3/30/16 0452

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2129

FedEx Express — Airbill

FedEx Tracking Number 8075 8854 6416

Form ID No. 0215

From

Date 3/29/16

Sender's Name Isaac Parr Phone 817 235 2116

Company FEI BASAL CONSULTING

Address 17781 COWAN

Dept/Floor/Suite/Room

City IRVINE State CA ZIP 92614-4502

Your Internal Billing Reference 603278.048

Recipient's Name Nicole Scott Phone 714 895-5494

Company Eurofins Calscience Inc

Address 7440 Lincoln Way

Cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

Enter this line for the HOLD location address or for continuation of your shipping address.

City Garden Grove State CA ZIP 92841

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0115511102

8075 8854 6416

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

No | Yes As per attached Shipper's Declaration | Yes Shipper's Declaration not required | Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed | Recipient | Third Party | Credit Card | Cash/Check

Total Packages ____ Total Weight 10 lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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XLT

151969 REV 09/04 MM

First Overnight®

8075 8854 6416

91 APVA

TRK# 0215 8075 8854 6416

WED - 30 MAR 8:0

FIRST OVERNIG

92841

CA-US SN

GARDEN GROVE CA 92841

(714) 895-5494

INV:

PO:

REF:

DEPT:

TO NICOLE SCOTT

EUROFINS CALSCIENCE

7440 LINCOLN WAY

IRVINE, CA 926446009

UNITED STATES US

ORIGIN ID:UTOA

LEIGHTON CONSULTING (949) 477-4040

17781 COWAN

SHIP DATE: 29MAR16

ACTWGT: 9.90 LB

CAD: 0FC1622

DIMS: 0x0x0 IN

BILL SENDER

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WORK ORDER NUMBER: 16-03- 2129

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: 15

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WORK ORDER NUMBER: 16-03-2130

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-2130

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Work Order Narrative

Work Order: 16-03-2130 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2130.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2130-1-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 14:12**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	6.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	82	25-121	
Phenol-d6	84	24-113	
Nitrobenzene-d5	82	23-120	
2-Fluorobiphenyl	81	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2130
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	98	19-122	
p-Terphenyl-d14	96	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2130
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2130-2-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 14:32**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	93	25-121	
Phenol-d6	94	24-113	
Nitrobenzene-d5	94	23-120	
2-Fluorobiphenyl	89	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2130
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	99	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2130-3-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 14:52**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	91	25-121	
Phenol-d6	91	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	90	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2130
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	99	19-122	
p-Terphenyl-d14	92	18-137	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-46**	**N/A**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 12:04**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2130
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR011.D
Acq On : 30 Mar 2016 2:12 pm
Operator : 923
Sample : 16-03-2130-1
Misc : 10UL S7-16-25
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR012.D
Acq On : 30 Mar 2016 2:32 pm
Operator : 923
Sample : 16-03-2130-2
Misc : 10UL S7-16-25
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR013.D
Acq On : 30 Mar 2016 2:52 pm
Operator : 923
Sample : 16-03-2130-3
Misc : 10UL S7-16-25
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2130
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-46	**LCS**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:04**	**160330L02**
096-02-006-46	**LCSD**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:24**	**160330L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	181.2	91	196.1	98	20-120	3-137	8	0-42	
2-Chlorophenol	200.0	179.4	90	199.2	100	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	174.3	87	193.8	97	20-124	3-141	11	0-28	
N-Nitroso-di-n-propylamine	200.0	179.1	90	195.5	98	0-230	0-268	9	0-38	
1,2,4-Trichlorobenzene	200.0	183.5	92	192.2	96	44-142	28-158	5	0-28	
Naphthalene	200.0	172.5	86	184.3	92	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	184.3	92	193.4	97	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	178.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	170.1	85	181.7	91	33-145	14-164	7	0-20	
Acenaphthene	200.0	176.5	88	187.2	94	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	173.1	87	182.6	91	0-132	0-154	5	0-20	
2,4-Dinitrotoluene	200.0	187.7	94	200.3	100	39-139	22-156	7	0-38	
Fluorene	200.0	174.5	87	185.0	93	59-121	49-131	6	0-20	
Pentachlorophenol	200.0	187.0	94	210.6	105	14-176	0-203	12	0-20	
Pyrene	200.0	180.3	90	194.6	97	52-115	42-126	8	0-20	
Butyl Benzyl Phthalate	200.0	168.3	84	178.9	89	0-152	0-177	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-2130 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2130**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: ~~ENRICO~~ FLORES
	Project Location: Aliso Canyon	Date: 3-28-16

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100 cm²	GZ	NORTH SLIDING DOOR FLOOR	SVOC 8270
2		100 cm²	GZ	North Sliding Door Floor	SVOC 8270
3		100 cm²	GZ	North Sliding Door Floor	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3-28-16	Time: 5:00	Received by:	Date:	Time:
Relinquished by:	Date: 3/28/16	Time: 5:10	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 0952	Received by:	Date: 3/29/16	Time: 0952

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2130

FedEx Express US Airbill

FedEx Tracking Number 8075 8854 6416

Form ID No. 0215

From
Date 3/29/16
Sender's Name Traci Parr Phone 817 235-2116
Company LEIGHTON CONSULTING
Address 17781 COWAN Dept/Floor/Suite/Room
City IRVINE State CA ZIP 92614-5021

Your Internal Billing Reference 603278.048

To
Recipient's Name Nicole Scott Phone 714 895-5494
Company Eurofins Calscience Inc
Address 7440 Lincoln Wy Dept/Floor/Suite/Room
Cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
This line for the HOLD location address or for continuation of your shipping address.
City Garden Grove State CA ZIP 92841

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

011851111O2

8075 8854 6416

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days
- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
No Signature Required — Package may be left without obtaining a signature for delivery.
Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.
No | Yes As per attached Shipper's Declaration | Yes Shipper's Declaration not required | Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.
Cargo Aircraft Only

7 Payment Bill to:
Sender Acct. No. in Section 1 will be billed | Recipient | Third Party | Credit Card | Cash/Check
Enter FedEx Acct. No. or Credit Card No. below.
Obtain recip. Acct. No.
Total Packages ____ Total Weight 10 lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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XLT

151969 REV 09/04 MM

First Overnight®

91 APVA

TRK# 0215 8075 8854 6416

WED - 30 MAR 8:0
FIRST OVERNIG

92841
CA-US SN

GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:
DEPT:

Fed
EXP

ORIGIN ID:JTOA (949) 477-4040
LEIGHTON CONSULTING
17781 COWAN
IRVINE, CA 926146009
UNITED STATES US

TO NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY

SHIP DATE: 29MAR16
ACTWGT: 9.90 LB
CAD: /0FC1822
DIMS: 0X0X0 IN
BILL SENDER

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WORK ORDER NUMBER: 16-03- 2130

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: 15

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WORK ORDER NUMBER: 16-03-2131

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-2131

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Work Order Narrative

Work Order: 16-03-2131 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2131.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2131-1-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 15:11**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	96	25-121	
Phenol-d6	96	24-113	
Nitrobenzene-d5	97	23-120	
2-Fluorobiphenyl	95	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2131
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	105	19-122	
p-Terphenyl-d14	97	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2131-2-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 15:31**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	2.4	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	78	25-121	
Phenol-d6	79	24-113	
Nitrobenzene-d5	79	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2131
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	92	19-122	
p-Terphenyl-d14	94	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2131-3-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 15:51**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	93	25-121	
Phenol-d6	95	24-113	
Nitrobenzene-d5	95	23-120	
2-Fluorobiphenyl	93	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2131
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-46**	**N/A**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 12:04**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2131
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR014.D
Acq On : 30 Mar 2016 3:11 pm
Operator : 923
Sample : 16-03-2131-1
Misc : 10UL S7-16-25
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR015.D
Acq On : 30 Mar 2016 3:31 pm
Operator : 923
Sample : 16-03-2131-2
Misc : 10UL S7-16-25
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR016.D
Acq On : 30 Mar 2016 3:51 pm
Operator : 923
Sample : 16-03-2131-3
Misc : 10UL S7-16-25
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2131
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-46	**LCS**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:04**	**160330L02**
096-02-006-46	**LCSD**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:24**	**160330L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	181.2	91	196.1	98	20-120	3-137	8	0-42	
2-Chlorophenol	200.0	179.4	90	199.2	100	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	174.3	87	193.8	97	20-124	3-141	11	0-28	
N-Nitroso-di-n-propylamine	200.0	179.1	90	195.5	98	0-230	0-268	9	0-38	
1,2,4-Trichlorobenzene	200.0	183.5	92	192.2	96	44-142	28-158	5	0-28	
Naphthalene	200.0	172.5	86	184.3	92	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	184.3	92	193.4	97	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	178.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	170.1	85	181.7	91	33-145	14-164	7	0-20	
Acenaphthene	200.0	176.5	88	187.2	94	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	173.1	87	182.6	91	0-132	0-154	5	0-20	
2,4-Dinitrotoluene	200.0	187.7	94	200.3	100	39-139	22-156	7	0-38	
Fluorene	200.0	174.5	87	185.0	93	59-121	49-131	6	0-20	
Pentachlorophenol	200.0	187.0	94	210.6	105	14-176	0-203	12	0-20	
Pyrene	200.0	180.3	90	194.6	97	52-115	42-126	8	0-20	
Butyl Benzyl Phthalate	200.0	168.3	84	178.9	89	0-152	0-177	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-2131 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2131**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: KIRK A. CAVALIER
	Project Location: Aliso Canyon	Date: 3/28/16

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100	GAUZE WIPE	LIVING ROOM, N. WALL, WINDOW SILL	SVOC-8270
2		100	↓	LIVING ROOM, N. WALL, TV STAND	↓
3	97-GZ-B		GAUZE WIPE	BLANK	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/28/16	Time: 12:28	Received by:	Date:	Time:
Relinquished by:	Date: 3/28/16	Time: 13:21	Received by:	Date:	Time:
Relinquished by: FEDEX	Date: 3/29/16	Time: 0752	Received by:	Date: 3/29/16	Time: 0752

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FedEx Express — Airbill

FedEx Tracking Number 8075 8854 6416

Form ID No. 0215

From
Date 3/29/16
Sender's Name [redacted] Phone 817 2356266
Company [redacted] CONSULTING
Address [redacted]
Dept/Floor/Suite/Room
City [redacted] State CA ZIP 92614-8009

Your Internal Billing Reference 603278.048

To
Recipient's Name Nicole Scott Phone 714 895-5494
Company Eurofins Calscience Inc
Address 7440 Lincoln Way
Cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room
Address
This line for the HOLD location address or for continuation of your shipping address.
City Garden Grove State CA ZIP 92841

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

011851111 02

8075 8854 6416

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days
- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options
- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

Signature Options
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [x] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.
- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]
- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 1 Total Weight 10 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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XLT

151969 REV 09/04 MM

First Overnight®

8075 8854 6416

91 APVA

TRK# 0215 8075 8854 6416

WED - 30 MAR 8:1
FIRST OVERNIG

92841
CA-US SN

ORIGIN ID:JTOA (949) 477-4040
LEIGHTON CONSULTING
17781 COWAN
IRVINE, CA 926146009
UNITED STATES US

TO NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:
DEPT:

SHIP DATE: 29MAR16
ACTWGT: 5.90 LB
CAD: 7OFC1622
DIMS: 0x0x0 IN
BILL SENDER

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WORK ORDER NUMBER: 16-03- 2131

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2 ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: 15

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WORK ORDER NUMBER: 16-03-2132

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-03-2132

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Work Order Narrative

Work Order: 16-03-2132 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2132.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2132-1-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 16:11**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	85	25-121	
Phenol-d6	88	24-113	
Nitrobenzene-d5	86	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2132
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	96	19-122	
p-Terphenyl-d14	98	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2132-2-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 16:31**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	2.0	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	78	25-121	
Phenol-d6	81	24-113	
Nitrobenzene-d5	81	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2132
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	93	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2132-3-A**	**03/28/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 16:51**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	93	25-121	
Phenol-d6	93	24-113	
Nitrobenzene-d5	94	23-120	
2-Fluorobiphenyl	93	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2132
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	99	19-122	
p-Terphenyl-d14	97	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-46**	**N/A**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 12:04**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2132
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR017.D
Acq On : 30 Mar 2016 4:11 pm
Operator : 923
Sample : 16-03-2132-1
Misc : 10UL S7-16-25
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR018.D
Acq On : 30 Mar 2016 4:31 pm
Operator : 923
Sample : 16-03-2132-2
Misc : 10UL S7-16-25
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Library Search Compound Report

Data Path : w:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR019.D
Acq On : 30 Mar 2016 4:51 pm
Operator : 923
Sample : 16-03-2132-3
Misc : 10UL S7-16-25
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2132
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-46	**LCS**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:04**	**160330L02**
096-02-006-46	**LCSD**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:24**	**160330L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	181.2	91	196.1	98	20-120	3-137	8	0-42	
2-Chlorophenol	200.0	179.4	90	199.2	100	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	174.3	87	193.8	97	20-124	3-141	11	0-28	
N-Nitroso-di-n-propylamine	200.0	179.1	90	195.5	98	0-230	0-268	9	0-38	
1,2,4-Trichlorobenzene	200.0	183.5	92	192.2	96	44-142	28-158	5	0-28	
Naphthalene	200.0	172.5	86	184.3	92	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	184.3	92	193.4	97	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	178.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	170.1	85	181.7	91	33-145	14-164	7	0-20	
Acenaphthene	200.0	176.5	88	187.2	94	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	173.1	87	182.6	91	0-132	0-154	5	0-20	
2,4-Dinitrotoluene	200.0	187.7	94	200.3	100	39-139	22-156	7	0-38	
Fluorene	200.0	174.5	87	185.0	93	59-121	49-131	6	0-20	
Pentachlorophenol	200.0	187.0	94	210.6	105	14-176	0-203	12	0-20	
Pyrene	200.0	180.3	90	194.6	97	52-115	42-126	8	0-20	
Butyl Benzyl Phthalate	200.0	168.3	84	178.9	89	0-152	0-177	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-2132 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2132**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Kurt Seifert
	Project Location: Aliso Canyon	Date: 3-28-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1 [redacted]	10" SQ cm	GZ	North Bedroom Closet floor	SVOC 8270
2	10" SQ cm	GZ	Boys Room Window sill	SVOC 8270
3 ~~Blank~~ 119-G2B	Blank	GZ	Blank	SVOC 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3-28-16	Time: 12:30	Received by:	Date:	Time:
Relinquished by:	Date: 3/28/16	Time: 1:40	Received by:	Date:	Time:
Relinquished by: FedEx	Date: 3/30/16	Time: 0752	Received by:	Date: 3/30/16	Time: 0752

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2132

FedEx Express — FedEx Tracking Number 8075 8854 6416 — Form ID No. 0215

From
Date 3/29/16
Sender's Name [redacted] Phone 817 235 6116
Company EISENMAN CONSULTING
Address [redacted]
Dept/Floor/Suite/Room
City [redacted] State CA ZIP 92614-6009

Your Internal Billing Reference 603278.048

To
Recipient's Name Nicole Scott Phone 714 895-5494
Company Eurofins Calscience Inc
Address 7440 Lincoln Way
Cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept/Floor/Suite/Room
Address
This line for the HOLD location address or for continuation of your shipping address.
City Garden Grove State CA ZIP 92841

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0118511102

8075 8854 6416

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days
- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options
- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [x] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.
- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]
- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 1 Total Weight 10 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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First Overnight®

91 APVA

TRK# 0215 8075 8854 6416

WED - 30 MAR 8:

FIRST OVERNIG

92841

CA-US SN

GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:
DEPT:

TO NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY
IRVINE, CA 926146009
UNITED STATES US

ORIGIN ID:JTOA
LEIGHTON CONSULTING (949) 477-4040
17781 COWAN

SHIP DATE: 29MAR16
ACTWGT: 9.90 LB
CAD: 70FFC1622
DIMS: 0X0X0 IN
BILL SENDER

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WORK ORDER NUMBER: 16-03- 2132

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: LS

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WORK ORDER NUMBER: 16-03-2133

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-2133

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Work Order Narrative

Work Order: 16-03-2133 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2133.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2133
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2133-1-A**	**03/29/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 17:10**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2133
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	95	25-121	
Phenol-d6	96	24-113	
Nitrobenzene-d5	94	23-120	
2-Fluorobiphenyl	93	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2133
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	95	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2133
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-46**	**N/A**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 12:04**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2133
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2133
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Library Search Compound Report

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR020.D
Acq On : 30 Mar 2016 5:10 pm
Operator : 923
Sample : 16-03-2133-1
Misc : 10UL S7-16-25
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2133
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-46	**LCS**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:04**	**160330L02**
096-02-006-46	**LCSD**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:24**	**160330L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	181.2	91	196.1	98	20-120	3-137	8	0-42	
2-Chlorophenol	200.0	179.4	90	199.2	100	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	174.3	87	193.8	97	20-124	3-141	11	0-28	
N-Nitroso-di-n-propylamine	200.0	179.1	90	195.5	98	0-230	0-268	9	0-38	
1,2,4-Trichlorobenzene	200.0	183.5	92	192.2	96	44-142	28-158	5	0-28	
Naphthalene	200.0	172.5	86	184.3	92	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	184.3	92	193.4	97	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	178.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	170.1	85	181.7	91	33-145	14-164	7	0-20	
Acenaphthene	200.0	176.5	88	187.2	94	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	173.1	87	182.6	91	0-132	0-154	5	0-20	
2,4-Dinitrotoluene	200.0	187.7	94	200.3	100	39-139	22-156	7	0-38	
Fluorene	200.0	174.5	87	185.0	93	59-121	49-131	6	0-20	
Pentachlorophenol	200.0	187.0	94	210.6	105	14-176	0-203	12	0-20	
Pyrene	200.0	180.3	90	194.6	97	52-115	42-126	8	0-20	
Butyl Benzyl Phthalate	200.0	168.3	84	178.9	89	0-152	0-177	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-2133 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2133**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Shannan Hill
	Project Location: Aliso Canyon	Date: 3/29/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100cm²	gauze wipe	living room cabinet	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 3/29/16	Time: 1111	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1140	Received by:	Date:	Time:
Relinquished by: FedEx	Date: 3/30/16	Time: 0852	Received by: [illegible]	Date: 3/30/16	Time: 0852

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2133

FedEx Express — US Airbill

FedEx Tracking Number 8075 8854 6416

Form ID No. 0215

From
Date 3/29/16
Sender's Name Inés Parr Phone 817 235-6266
Company LEIGHTON CONSULTING
Address 17781 CONAN
Dept/Floor/Suite/Room
City IRVINE State CA ZIP 92614-6009

Your Internal Billing Reference 603278.048

To
Recipient's Name Nicole Scott Phone 714 895-5494
Company Eurofins Calscience Inc
Address 7440 Lincoln Way
Cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept/Floor/Suite/Room
Address
This line for the HOLD location address or for continuation of your shipping address.
City Garden Grove State CA ZIP 92841

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0118511102

8075 8854 6416

4 Express Package Service — To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days
- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging — * Declared value limit $500.
- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options
- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

Signature Options
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [x] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.
- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment — Bill to:
Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]
- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight 10 lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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151969 REV 09/04 MMI

First Overnight®

91 APVA

TRK# 0215 8075 8854 6416

WED - 30 MAR 8:1
FIRST OVERNIG

92841
CA-US SN

DEPT:

GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:

TO NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY
IRVINE, CA 926146009
UNITED STATES US

ORIGIN ID:JTOA
LEIGHTON CONSULTING
17781 CONAN
(949) 477-4040

SHIP DATE: 29MAR16
ACTWGT: 9.90 LB
CAD: 7OFFC1622
DIMS: 0X0X0 IN
BILL SENDER

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WORK ORDER NUMBER: 16-03- 2133

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: 15

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WORK ORDER NUMBER: 16-03-2134

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton & Associates, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Approved for release on 03/31/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-03-2134

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Work Order Narrative

Work Order: 16-03-2134 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/30/16. They were assigned to Work Order 16-03-2134.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2134
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-03-2134-1-A**	**03/29/16 00:00**	**Wipe**	**GC/MS TT**	**03/30/16**	**03/30/16 17:30**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2134
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	12	25-121	2,6
Phenol-d6	39	24-113	
Nitrobenzene-d5	33	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.	Date Received:	03/30/16
17781 Cowan, Suite 100	Work Order:	16-03-2134
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	99	19-122	
p-Terphenyl-d14	95	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2134
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-46**	**N/A**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 12:04**	**160330L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2134
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	81	25-121	
Phenol-d6	82	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	80	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton & Associates, Inc.		Date Received:	03/30/16
17781 Cowan, Suite 100		Work Order:	16-03-2134
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	93	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Data Path : W:\GCMS_TT\GCMS_TT_DATA\2016\160330\
Data File : 30MAR021.D
Acq On : 30 Mar 2016 5:30 pm
Operator : 923
Sample : 16-03-2134-1
Misc : 10UL S7-16-25
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton & Associates, Inc.
17781 Cowan, Suite 100
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 03/30/16
Work Order: 16-03-2134
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-46	**LCS**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:04**	**160330L02**
096-02-006-46	**LCSD**	**Solid**	**GC/MS TT**	**03/30/16**	**03/30/16 11:24**	**160330L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	181.2	91	196.1	98	20-120	3-137	8	0-42	
2-Chlorophenol	200.0	179.4	90	199.2	100	23-134	4-152	10	0-40	
1,4-Dichlorobenzene	200.0	174.3	87	193.8	97	20-124	3-141	11	0-28	
N-Nitroso-di-n-propylamine	200.0	179.1	90	195.5	98	0-230	0-268	9	0-38	
1,2,4-Trichlorobenzene	200.0	183.5	92	192.2	96	44-142	28-158	5	0-28	
Naphthalene	200.0	172.5	86	184.3	92	21-133	2-152	7	0-20	
4-Chloro-3-Methylphenol	200.0	184.3	92	193.4	97	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	167.8	84	178.9	89	0-112	0-131	6	0-20	
Acenaphthylene	200.0	170.1	85	181.7	91	33-145	14-164	7	0-20	
Acenaphthene	200.0	176.5	88	187.2	94	47-145	31-161	6	0-31	
4-Nitrophenol	200.0	173.1	87	182.6	91	0-132	0-154	5	0-20	
2,4-Dinitrotoluene	200.0	187.7	94	200.3	100	39-139	22-156	7	0-38	
Fluorene	200.0	174.5	87	185.0	93	59-121	49-131	6	0-20	
Pentachlorophenol	200.0	187.0	94	210.6	105	14-176	0-203	12	0-20	
Pyrene	200.0	180.3	90	194.6	97	52-115	42-126	8	0-20	
Butyl Benzyl Phthalate	200.0	168.3	84	178.9	89	0-152	0-177	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-03-2134 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-03-2134**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Wallace Seamons
	Project Location: Aliso Canyon	Date: 3-29-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100 cm²	Gauze wipe	North facing patio - sliding glass doors ~~to~~ floor	SVOCs 8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: Wallace Seamons	Date: 3-29-16	Time: 1135	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1140	Received by:	Date:	Time:
Relinquished by:	Date: 3/30/16	Time: 0852	Received by:	Date: 3/30/16	Time: 0852

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FedEx Express US Airbill

FedEx Tracking Number 8075 8854 6416

Form ID No. 0215

From
Date 3/29/16
Sender's Name Inés Parr Phone 817 235-2266
Company EISENMAN CONSULTING
Address 17781 COWAN
Dept/Floor/Suite/Room
City IRVINE State CA ZIP 92614-6009
Your Internal Billing Reference 603278.048

To
Recipient's Name Nicole Scott Phone 714 895-5494
Company Eurofins Calscience Inc
Address 7440 Lincoln Way
Cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept/Floor/Suite/Room
Address
This line for the HOLD location address or for continuation of your shipping address.
City Garden Grove State CA ZIP 92841

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0118511102

8075 8854 6416

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days
- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
No Signature Required — Package may be left without obtaining a signature for delivery.
Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.
No | Yes — As per attached Shipper's Declaration | Yes — Shipper's Declaration not required | Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.
Cargo Aircraft Only

7 Payment Bill to:
Sender — Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check
Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.
Total Packages ____ Total Weight 10 lbs.
Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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XLT

151969 REV 09/04 MWM

First Overnight®

91 APVA

TRK# 0215 8075 8854 6416

WED – 30 MAR 8:0
FIRST OVERNIG

CA-US
92841
SN

ORIGIN ID:JTOA (949) 477-4040
LEIGHTON CONSULTING
17781 COWAN
IRVINE, CA 926146009
UNITED STATES US

TO NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:
DEPT:

SHIP DATE: 29MAR16
ACTWGT: 9.90 LB
CAD: /OFC1622
DIMS: 0x0x0 IN
BILL SENDER

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WORK ORDER NUMBER: 16-03- 2134

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: LEIGHTON CONSULTING

DATE: 03 / 30 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4B (CF: +0.3°C); Temperature (w/o CF): 18.2 °C (w/ CF): 18.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 426

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 2 ozCG ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 426

Reviewed by: LS

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WORK ORDER NUMBER: 16-04-0255

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: Aliso Canyon / 603287.048

Attention: Meredith Church
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 04/07/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

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Client Project Name: Aliso Canyon / 603287.048
Work Order Number: 16-04-0255

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Work Order Narrative

Work Order: 16-04-0255 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/06/16. They were assigned to Work Order 16-04-0255.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/06/16
Work Order: 16-04-0255
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0255-1-A**	**04/05/16 00:00**	**Wipe**	**GC/MS CCC**	**04/06/16**	**04/06/16 14:36**	**160406L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	8.4	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/06/16
Work Order: 16-04-0255
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	85	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	93	23-120	
2-Fluorobiphenyl	86	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/06/16
17781 Cowan, Suite 140		Work Order:	16-04-0255
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: Aliso Canyon / 603287.048			Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	95	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/06/16
Work Order: 16-04-0255
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-48**	**N/A**	**Solid**	**GC/MS CCC**	**04/06/16**	**04/06/16 14:18**	**160406L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/06/16
Work Order: 16-04-0255
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	88	25-121	
Phenol-d6	86	24-113	
Nitrobenzene-d5	99	23-120	
2-Fluorobiphenyl	89	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/06/16
17781 Cowan, Suite 140	Work Order:	16-04-0255
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	97	19-122	
p-Terphenyl-d14	92	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160406\
Data File : 06APR011.D
Acq On : 6 Apr 2016 2:36 pm
Operator : 923
Sample : 16-04-0255-1
Misc : 10UL S7-16-3
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethanol, 2-butoxy-	2.537	4.8	mg/l	308882	1	3.361	2577670	40.0
1-Propanol, 2-(...	3.505	4.3	mg/l	280249	1	3.361	2577670	40.0
2-Propanol, 1-[...	3.527	7.5	mg/l	481861	1	3.361	2577670	40.0
Cyclononasiloxa...	8.442	4.1	mg/l	443388	4	7.821	4295180	40.0
Hexasiloxane, t...	9.014	8.4	mg/l	906014	4	7.821	4295180	40.0
Hexasiloxane, t...	9.533	12.1	mg/l	1621580	5	10.496	5365740	40.0
Hexasiloxane, t...	10.036	21.1	mg/l	2837080	5	10.496	5365740	40.0
Hexasiloxane, t...	10.555	33.5	mg/l	4500500	5	10.496	5365740	40.0
Hexasiloxane, t...	11.100	47.5	mg/l	6374560	5	10.496	5365740	40.0
Cyclononasiloxa...	11.678	24.5	mg/l	7412350	6	12.293	12082100	40.0
Cyclononasiloxa...	12.887	25.6	mg/l	7728340	6	12.293	12082100	40.0
Cyclononasiloxa...	13.512	23.8	mg/l	7201370	6	12.293	12082100	40.0
Cyclononasiloxa...	14.192	21.4	mg/l	6471560	6	12.293	12082100	40.0

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/06/16
Work Order: 16-04-0255
Preparation: EPA 3545
Method: EPA 8270C
Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-48	**LCS**	**Solid**	**GC/MS CCC**	**04/06/16**	**04/06/16 13:41**	**160406L05**
096-02-006-48	**LCSD**	**Solid**	**GC/MS CCC**	**04/06/16**	**04/06/16 14:00**	**160406L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	166.0	83	178.2	89	20-120	3-137	7	0-42	
2-Chlorophenol	200.0	178.4	89	190.4	95	23-134	4-152	6	0-40	
1,4-Dichlorobenzene	200.0	168.7	84	184.4	92	20-124	3-141	9	0-28	
N-Nitroso-di-n-propylamine	200.0	196.6	98	207.5	104	0-230	0-268	5	0-38	
1,2,4-Trichlorobenzene	200.0	177.8	89	191.6	96	44-142	28-158	7	0-28	
Naphthalene	200.0	164.3	82	178.0	89	21-133	2-152	8	0-20	
4-Chloro-3-Methylphenol	200.0	173.7	87	183.4	92	22-147	1-168	5	0-20	
Dimethyl Phthalate	200.0	168.4	84	180.0	90	0-112	0-131	7	0-20	
Acenaphthylene	200.0	161.6	81	173.7	87	33-145	14-164	7	0-20	
Acenaphthene	200.0	172.7	86	189.1	95	47-145	31-161	9	0-31	
4-Nitrophenol	200.0	156.2	78	167.4	84	0-132	0-154	7	0-20	
2,4-Dinitrotoluene	200.0	195.7	98	210.8	105	39-139	22-156	7	0-38	
Fluorene	200.0	160.6	80	174.6	87	59-121	49-131	8	0-20	
Pentachlorophenol	200.0	140.6	70	157.2	79	14-176	0-203	11	0-20	
Pyrene	200.0	181.6	91	192.0	96	52-115	42-126	6	0-20	
Butyl Benzyl Phthalate	200.0	184.9	92	198.0	99	0-152	0-177	7	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-0255 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8270C	EPA 3545	923	GC/MS CCC	1

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Glossary of Terms and Qualifiers

Work Order: 16-04-0255 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-04-0255**
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 4/5/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	(10x10) 100 cm²	Sterile Gauze w/ DI Water	Living Room, Stone Tile Floor, beneath window	8270

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date: 4/5/16	Time: 1720	Received by:	Date: 4/5/16	Time: 1712
Relinquished by:	Date: 4/5/16	Time: 1800	Received by:	Date: 4/6/16	Time: 1015
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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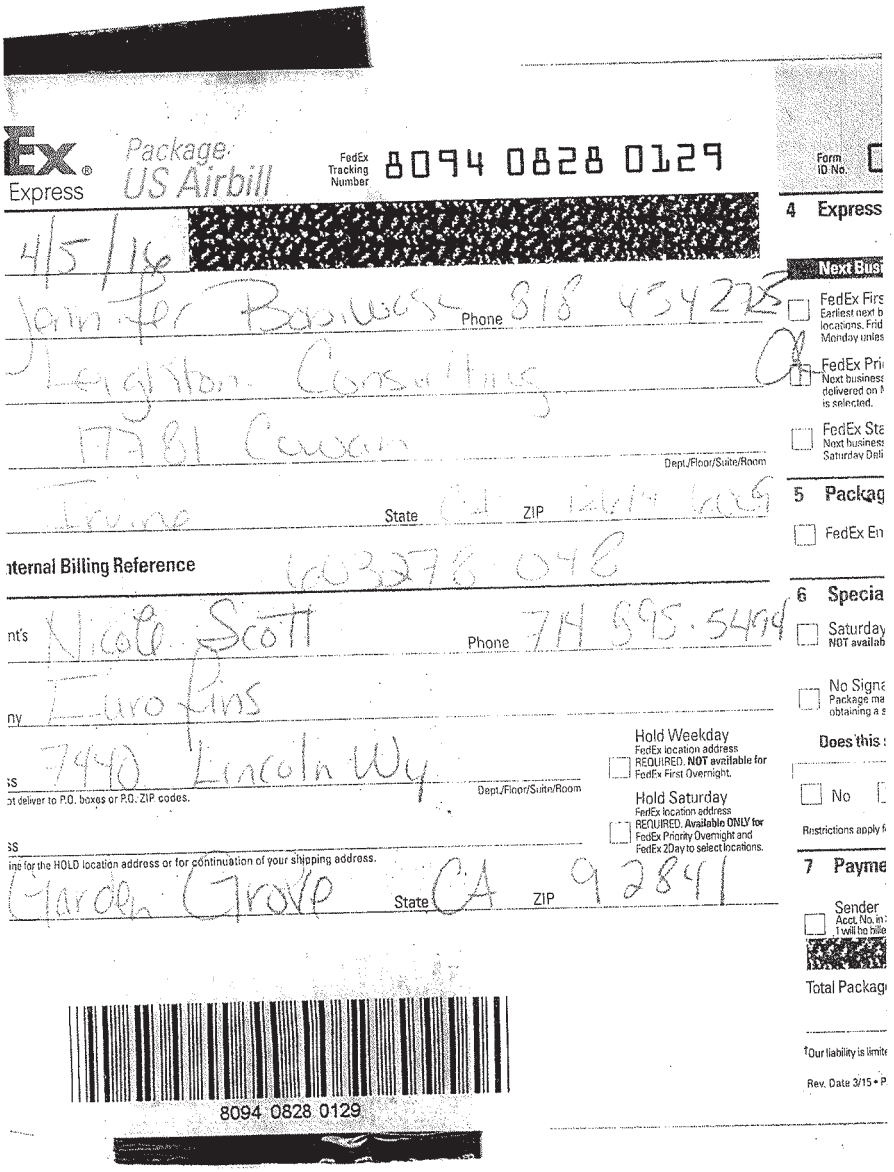

FedEx Express Package US Airbill
FedEx Tracking Number 8094 0828 0129
Form ID No.
4/5/16
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Joint for Business Phone 818 434223
Leighton Consulting
17781 Cowan
Irvine State CA ZIP 92614
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FedEx Priority Overnight and
FedEx 2Day to select locations.
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Our liability is limite
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GARDEN GROVE CA 92841
(714) 892-5626
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WORK ORDER NUMBER: 16-04- 0255

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Leighton

DATE: 04 / 06 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 3.9 °C (w/ CF): 3.9 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SB6

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SB6

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SB6

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 4ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SB6

Reviewed by: IS

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WORK ORDER NUMBER: 16-04-0487

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 04/11/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: 603287.048
Work Order Number: 16-04-0487

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Work Order Narrative

Work Order: 16-04-0487 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/08/16. They were assigned to Work Order 16-04-0487.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0487-1-A**	**04/07/16 00:00**	**Wipe**	**GC/MS SS**	**04/08/16**	**04/08/16 17:47**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.3	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	65	25-121	
Phenol-d6	59	24-113	
Nitrobenzene-d5	66	23-120	
2-Fluorobiphenyl	62	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0487
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	56	19-122	
p-Terphenyl-d14	58	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0487-2-A**	**04/07/16 00:00**	**Wipe**	**GC/MS SS**	**04/08/16**	**04/08/16 18:06**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	5.5	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	2.6	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	85	25-121	
Phenol-d6	79	24-113	
Nitrobenzene-d5	85	23-120	
2-Fluorobiphenyl	87	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0487
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	91	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-49**	**N/A**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 16:48**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	104	25-121	
Phenol-d6	94	24-113	
Nitrobenzene-d5	106	23-120	
2-Fluorobiphenyl	103	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0487
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	108	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160408\
Data File : 08APR013.D
Acq On : 8 Apr 2016 5:47 pm
Operator : 923
Sample : 16-04-0487-1A
Misc : 10UL S7-16-4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	8.581	6.7	mg/l	852085	4	8.025	5098180	40.0
Octadecanoic acid	9.351	10.2	mg/l	1302810	4	8.025	5098180	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160408\
Data File : 08APR014.D
Acq On : 8 Apr 2016 6:06 pm
Operator : 923
Sample : 16-04-0487-2A
Misc : 10UL S7-16-4
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	8.581	10.9	mg/l	1188660	4	8.025	4351220	40.0
Octadecanoic acid	9.351	19.9	mg/l	2168080	4	8.025	4351220	40.0

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0487
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-49	**LCS**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 17:08**	**160408L08**
096-02-006-49	**LCSD**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 17:27**	**160408L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	167.3	84	175.8	88	20-120	3-137	5	0-42	
2-Chlorophenol	200.0	171.0	85	178.4	89	23-134	4-152	4	0-40	
1,4-Dichlorobenzene	200.0	166.1	83	173.7	87	20-124	3-141	4	0-28	
N-Nitroso-di-n-propylamine	200.0	158.0	79	167.7	84	0-230	0-268	6	0-38	
1,2,4-Trichlorobenzene	200.0	177.7	89	182.2	91	44-142	28-158	2	0-28	
Naphthalene	200.0	170.5	85	173.0	86	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	200.0	164.9	82	170.6	85	22-147	1-168	3	0-20	
Dimethyl Phthalate	200.0	169.6	85	177.7	89	0-112	0-131	5	0-20	
Acenaphthylene	200.0	169.4	85	176.3	88	33-145	14-164	4	0-20	
Acenaphthene	200.0	184.8	92	191.5	96	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	169.2	85	179.2	90	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	179.0	89	187.5	94	39-139	22-156	5	0-38	
Fluorene	200.0	169.2	85	175.4	88	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	162.9	81	168.1	84	14-176	0-203	3	0-20	
Pyrene	200.0	196.2	98	205.2	103	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	158.0	79	165.0	83	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-0487 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8270C	EPA 3545	923	GC/MS SS	1

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Glossary of Terms and Qualifiers

Work Order: 16-04-0487 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

Page 1 of 1

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-04-0487**
	Client: Los Angeles County	Sampler Name: Wallace Sconiers / Haunett Peterson
	Project Location: Aliso Canyon	Date: 4-07-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100cm^2	Gauze	North in office - at top of wall cabinets.	8270
	↓	↓	"	8270
			"	

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: Wallace Sconiers	Date: 4-7-16	Time: 1512	Received by:	Date: 4/7/16	Time: 320
Relinquished by:	Date: 4-7-16	Time: 321	Received by:	Date: 4/7/16	Time: 1334
Relinquished by: FedEx to Eurofins	Date: 4/7/16	Time: 800	Received by:	Date: 4/8/16	Time: 1020

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0447

ORIGIN ID:VNYA (949) 477-4040
LEIGHTON CONSULTING

17781 COWAN

IRVINE, CA 926146009
UNITED STATES US

SHIP DATE: 07APR16
ACTWGT: 2.40 LB
CAD: /POS1622
DIMS: 0x0x0 IN

BILL SENDER

Part # 156287A-435 BIR2 02/17

NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:
INV: DEPT:
PO:

FedEx
Express

FRI - 08 APR 3:00P
STANDARD OVERNIGHT

TRK# 0200 8086 2376 1814

92 APVA

92841
CA-US SNA

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WORK ORDER NUMBER: 16-04- 0447

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: Leighton

DATE: 04 / 08 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 20.3 °C (w/ CF): 20.3 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SDR

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (wipe): ☑ 4 oz CGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SDR

Reviewed by: ZTB

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WORK ORDER NUMBER: 16-04-0488

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 04/11/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-04-0488

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3 Tentatively Identified Compounds (TICs). 13

4 Quality Control Sample Data. 15
4.1 LCS/LCSD. 15

5 Sample Analysis Summary. 16

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7 Chain-of-Custody/Sample Receipt Form. 18

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Work Order Narrative

Work Order: 16-04-0488 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/08/16. They were assigned to Work Order 16-04-0488.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0488
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0488-1-A**	**04/07/16 00:00**	**Wipe**	**GC/MS SS**	**04/08/16**	**04/11/16 11:33**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	5.6	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0488
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	96	25-121	
Phenol-d6	86	24-113	
Nitrobenzene-d5	97	23-120	
2-Fluorobiphenyl	97	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/08/16
17781 Cowan, Suite 140	Work Order:	16-04-0488
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	94	19-122	
p-Terphenyl-d14	91	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0488
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0488-2-A**	**04/07/16 00:00**	**Wipe**	**GC/MS SS**	**04/08/16**	**04/08/16 18:45**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	6.2	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0488
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	92	25-121	
Phenol-d6	83	24-113	
Nitrobenzene-d5	92	23-120	
2-Fluorobiphenyl	92	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/08/16
17781 Cowan, Suite 140	Work Order:	16-04-0488
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	88	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0488
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-49**	**N/A**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 16:48**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0488
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	104	25-121	
Phenol-d6	94	24-113	
Nitrobenzene-d5	106	23-120	
2-Fluorobiphenyl	103	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0488
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	108	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160411\
Data File : 11APR006.D
Acq On : 11 Apr 2016 11:33 am
Operator : 923
Sample : 16-04-0488-1A
Misc : 10UL S7-16-4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.586	23.7	mg/l	2711670	4	8.025	4574620	40.0
Octadecanoic acid	9.357	47.9	mg/l	5481810	4	8.025	4574620	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160408\
Data File : 08APR016.D
Acq On : 8 Apr 2016 6:45 pm
Operator : 923
Sample : 16-04-0488-2A
Misc : 10UL S7-16-4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Octadecanoic acid	9.346	5.5	mg/l	537815	4	8.025	3931880	40.0

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0488
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-49	**LCS**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 17:08**	**160408L08**
096-02-006-49	**LCSD**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 17:27**	**160408L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	167.3	84	175.8	88	20-120	3-137	5	0-42	
2-Chlorophenol	200.0	171.0	85	178.4	89	23-134	4-152	4	0-40	
1,4-Dichlorobenzene	200.0	166.1	83	173.7	87	20-124	3-141	4	0-28	
N-Nitroso-di-n-propylamine	200.0	158.0	79	167.7	84	0-230	0-268	6	0-38	
1,2,4-Trichlorobenzene	200.0	177.7	89	182.2	91	44-142	28-158	2	0-28	
Naphthalene	200.0	170.5	85	173.0	86	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	200.0	164.9	82	170.6	85	22-147	1-168	3	0-20	
Dimethyl Phthalate	200.0	169.6	85	177.7	89	0-112	0-131	5	0-20	
Acenaphthylene	200.0	169.4	85	176.3	88	33-145	14-164	4	0-20	
Acenaphthene	200.0	184.8	92	191.5	96	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	169.2	85	179.2	90	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	179.0	89	187.5	94	39-139	22-156	5	0-38	
Fluorene	200.0	169.2	85	175.4	88	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	162.9	81	168.1	84	14-176	0-203	3	0-20	
Pyrene	200.0	196.2	98	205.2	103	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	158.0	79	165.0	83	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-0488 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8270C	EPA 3545	923	GC/MS SS	1

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Glossary of Terms and Qualifiers

Work Order: 16-04-0488 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-04-0488**
	Client: Los Angeles County	Sampler Name: Shannon Hill / Lucas Walton
	Project Location: Aliso Canyon	Date: 4/7/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	10cm2	gauze wipe	diningarea windowsill	8270
[redacted]	"	"	Field Blank	"

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: [illegible]	Date: 4/7/16	Time: 1127	Received by: [illegible]	Date: 4/7/16	Time: 245
Relinquished by: [illegible]	Date: 4/7/16	Time: 2350	Received by: [illegible]	Date: 4/7/16	Time: 1335
Relinquished by: [illegible] to Fedex	Date: 4/7/16	Time: 1800	Received by: [illegible]	Date: 4/8/16	Time: 1030

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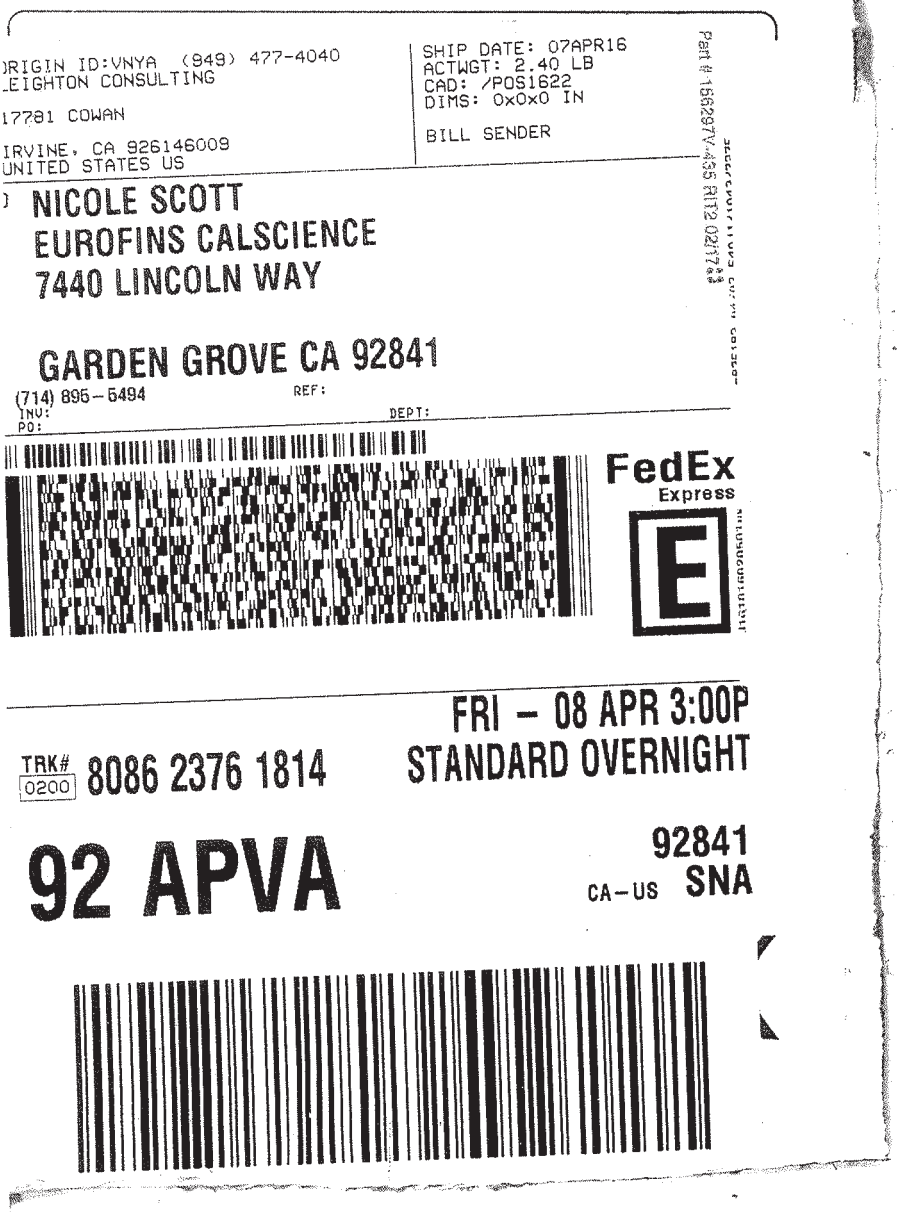
04W



ORIGIN ID:VNYA (949) 477-4040
LEIGHTON CONSULTING

17781 COWAN

IRVINE, CA 926146009
UNITED STATES US

SHIP DATE: 07APR16
ACTWGT: 2.40 LB
CAD: /POS1622
DIMS: 0x0x0 IN

BILL SENDER

Part # 156287V-435 RIT2 02/17

NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5494 REF:
INV: DEPT:
PO:

FedEx Express

FRI - 08 APR 3:00P
STANDARD OVERNIGHT

TRK# 0200 8086 2376 1814

92 APVA

92841
CA-US SNA

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WORK ORDER NUMBER: 16-04- 0447

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: Leighton

DATE: 04 / 08 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 20.3 °C (w/ CF): 20.3 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SR

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (wipe): ☑ 4oz CGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SR

Reviewed by: ZM

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WORK ORDER NUMBER: 16-04-0489

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: 603287.048

Attention: Meredith Church
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 04/11/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-04-0489

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Work Order Narrative

Work Order: 16-04-0489 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/08/16. They were assigned to Work Order 16-04-0489.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0489-1-A**	**04/07/16 00:00**	**Wipe**	**GC/MS SS**	**04/08/16**	**04/08/16 19:04**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.7	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-121	
Phenol-d6	72	24-113	
Nitrobenzene-d5	80	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/08/16
17781 Cowan, Suite 140	Work Order:	16-04-0489
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	73	19-122	
p-Terphenyl-d14	71	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-0489-2-A**	**04/07/16 00:00**	**Wipe**	**GC/MS SS**	**04/08/16**	**04/08/16 19:23**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	89	25-121	
Phenol-d6	81	24-113	
Nitrobenzene-d5	92	23-120	
2-Fluorobiphenyl	92	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/08/16
17781 Cowan, Suite 140		Work Order:	16-04-0489
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: 603287.048			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl
Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-49**	**N/A**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 16:48**	**160408L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	104	25-121	
Phenol-d6	94	24-113	
Nitrobenzene-d5	106	23-120	
2-Fluorobiphenyl	103	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/08/16
17781 Cowan, Suite 140	Work Order:	16-04-0489
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: 603287.048		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	100	19-122	
p-Terphenyl-d14	108	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160408\
Data File : 08APR017.D
Acq On : 8 Apr 2016 7:04 pm
Operator : 923
Sample : 16-04-0489-1A
Misc : 10UL S7-16-4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.581	20.3	mg/l	1933790	4	8.025	3807300	40.0
Octadecanoic acid	9.357	36.5	mg/l	3474850	4	8.025	3807300	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_SS\GCMS_SS_DATA\2016\160408\
Data File : 08APR018.D
Acq On : 8 Apr 2016 7:23 pm
Operator : 923
Sample : 16-04-0489-2A
Misc : 10UL S7-16-4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160322_BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Hexadecanoic ...	8.576	12.0	mg/l	1142890	4	8.025	3795020	40.0
Octadecanoic acid	9.352	22.4	mg/l	2126910	4	8.025	3795020	40.0

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: 603287.048

Date Received: 04/08/16
Work Order: 16-04-0489
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-49	**LCS**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 17:08**	**160408L08**
096-02-006-49	**LCSD**	**Solid**	**GC/MS SS**	**04/08/16**	**04/08/16 17:27**	**160408L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	167.3	84	175.8	88	20-120	3-137	5	0-42	
2-Chlorophenol	200.0	171.0	85	178.4	89	23-134	4-152	4	0-40	
1,4-Dichlorobenzene	200.0	166.1	83	173.7	87	20-124	3-141	4	0-28	
N-Nitroso-di-n-propylamine	200.0	158.0	79	167.7	84	0-230	0-268	6	0-38	
1,2,4-Trichlorobenzene	200.0	177.7	89	182.2	91	44-142	28-158	2	0-28	
Naphthalene	200.0	170.5	85	173.0	86	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	200.0	164.9	82	170.6	85	22-147	1-168	3	0-20	
Dimethyl Phthalate	200.0	169.6	85	177.7	89	0-112	0-131	5	0-20	
Acenaphthylene	200.0	169.4	85	176.3	88	33-145	14-164	4	0-20	
Acenaphthene	200.0	184.8	92	191.5	96	47-145	31-161	4	0-31	
4-Nitrophenol	200.0	169.2	85	179.2	90	0-132	0-154	6	0-20	
2,4-Dinitrotoluene	200.0	179.0	89	187.5	94	39-139	22-156	5	0-38	
Fluorene	200.0	169.2	85	175.4	88	59-121	49-131	4	0-20	
Pentachlorophenol	200.0	162.9	81	168.1	84	14-176	0-203	3	0-20	
Pyrene	200.0	196.2	98	205.2	103	52-115	42-126	4	0-20	
Butyl Benzyl Phthalate	200.0	158.0	79	165.0	83	0-152	0-177	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-0489 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8270C	EPA 3545	923	GC/MS SS	1

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Glossary of Terms and Qualifiers

Work Order: 16-04-0489 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 **16-04-0489**
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Camilla Wetterg/Robm Fmalone
	Project Location: Aliso Canyon	Date: 4/7/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted]	100cm^2	Gauze wipe	NW bedroom, 2nd floor above window	SVOCs 8270
	0 cm^2	↓	Trip blank	↓

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: Camilla Wetterg	Date: 4/7/16	Time: 333	Received by: [illegible]	Date: 4/7/16	Time: 3:34
Relinquished by: [illegible]	Date: 4/7/16	Time: 335	Received by: [illegible]	Date: 4/7/16	Time: 1605
Relinquished by: [illegible] to FedEx	Date: 4/7/16	Time: 1800	Received by: [illegible]	Date: 4/8/16	Time: 1030

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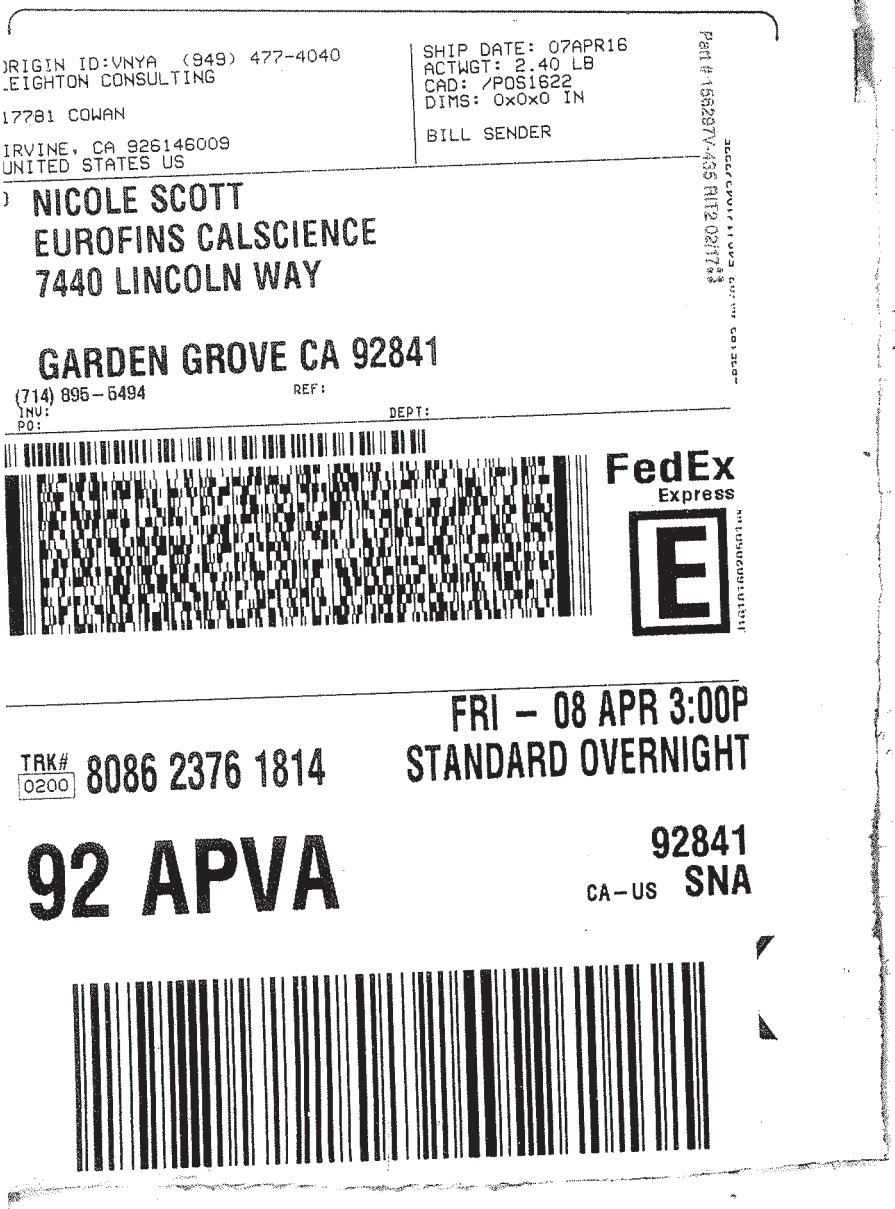
04PP



ORIGIN ID:VNYA (949) 477-4040
LEIGHTON CONSULTING
17781 COWAN
IRVINE, CA 926146009
UNITED STATES US

SHIP DATE: 07APR16
ACTWGT: 2.40 LB
CAD: /POS1622
DIMS: 0x0x0 IN
BILL SENDER

NICOLE SCOTT
EUROFINS CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-6494 REF:
INV: DEPT:
PO:

FedEx Express

FRI - 08 APR 3:00P
STANDARD OVERNIGHT

TRK# 0200 8086 2376 1814

92 APVA

92841
CA-US SNA

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WORK ORDER NUMBER: 16-04- 0459

SAMPLE RECEIPT CHECKLIST

BOX ~~COOLER~~ 1 OF 1

CLIENT: Neighbor

DATE: 04 / 08 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 20.3 °C (w/ CF): 20.3 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SO2

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (wipe): ☑ 4ozCGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SM

Reviewed by: 7/8

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WORK ORDER NUMBER: 16-04-1367

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: Aliso Canyon / 603287.048

Attention: Meredith Church
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Approved for release on 04/22/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Aliso Canyon / 603287.048
Work Order Number: 16-04-1367

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Work Order Narrative

Work Order: 16-04-1367 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/21/16. They were assigned to Work Order 16-04-1367.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-1-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 19:50**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	3.8	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	74	25-121	
Phenol-d6	76	24-113	
Nitrobenzene-d5	89	23-120	
2-Fluorobiphenyl	79	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 3 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	83	19-122	
p-Terphenyl-d14	87	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-2-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 20:08**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.3	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	63	25-121	
Phenol-d6	66	24-113	
Nitrobenzene-d5	78	23-120	
2-Fluorobiphenyl	68	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 6 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	71	19-122	
p-Terphenyl-d14	84	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-3-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 20:26**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.4	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-121	
Phenol-d6	70	24-113	
Nitrobenzene-d5	75	23-120	
2-Fluorobiphenyl	68	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 9 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	75	19-122	
p-Terphenyl-d14	79	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-4-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 20:44**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.6	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	63	25-121	
Phenol-d6	67	24-113	
Nitrobenzene-d5	75	23-120	
2-Fluorobiphenyl	64	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 12 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	71	19-122	
p-Terphenyl-d14	80	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-5-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 21:03**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.4	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	62	25-121	
Phenol-d6	63	24-113	
Nitrobenzene-d5	72	23-120	
2-Fluorobiphenyl	64	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 15 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	71	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-6-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 21:21**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	3.4	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	74	25-121	
Phenol-d6	75	24-113	
Nitrobenzene-d5	83	23-120	
2-Fluorobiphenyl	71	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 18 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	74	19-122	
p-Terphenyl-d14	76	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1367
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: Aliso Canyon / 603287.048			Page 19 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-7-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 21:39**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.5	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	78	25-121	
Phenol-d6	77	24-113	
Nitrobenzene-d5	89	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 21 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	77	19-122	
p-Terphenyl-d14	78	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-8-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 21:57**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.7	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	2.7	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	76	25-121	
Phenol-d6	75	24-113	
Nitrobenzene-d5	87	23-120	
2-Fluorobiphenyl	74	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 24 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	73	19-122	
p-Terphenyl-d14	77	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1367
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: Aliso Canyon / 603287.048			Page 25 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-9-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 22:16**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	2.6	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	3.7	50	1.1	1.00	J
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	77	25-121	
Phenol-d6	81	24-113	
Nitrobenzene-d5	89	23-120	
2-Fluorobiphenyl	78	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 27 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	85	19-122	
p-Terphenyl-d14	88	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1367
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: Aliso Canyon / 603287.048			Page 28 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-10-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 22:34**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	71	25-121	
Phenol-d6	72	24-113	
Nitrobenzene-d5	78	23-120	
2-Fluorobiphenyl	69	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 30 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	72	19-122	
p-Terphenyl-d14	72	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1367
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	ug/smpl
Project: Aliso Canyon / 603287.048			Page 31 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1367-11-A**	**04/20/16 00:00**	**Wipe**	**GC/MS CCC**	**04/21/16**	**04/21/16 22:53**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	4.4	50	2.3	1.00	J
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	68	25-121	
Phenol-d6	71	24-113	
Nitrobenzene-d5	78	23-120	
2-Fluorobiphenyl	68	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 33 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	78	19-122	
p-Terphenyl-d14	81	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-02-006-51**	**N/A**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/21/16 17:37**	**160421L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
N-Nitrosodimethylamine	ND	50	0.94	1.00	
Aniline	ND	50	1.2	1.00	
Phenol	ND	50	0.96	1.00	
Bis(2-Chloroethyl) Ether	ND	50	8.1	1.00	
2-Chlorophenol	ND	50	1.3	1.00	
1,3-Dichlorobenzene	ND	50	1.5	1.00	
1,4-Dichlorobenzene	ND	50	1.5	1.00	
Benzyl Alcohol	ND	50	1.3	1.00	
1,2-Dichlorobenzene	ND	50	1.3	1.00	
2-Methylphenol	ND	50	1.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	50	1.1	1.00	
3/4-Methylphenol	ND	50	3.3	1.00	
N-Nitroso-di-n-propylamine	ND	50	1.7	1.00	
Hexachloroethane	ND	50	1.6	1.00	
Nitrobenzene	ND	50	6.5	1.00	
Isophorone	ND	50	1.1	1.00	
2-Nitrophenol	ND	50	1.3	1.00	
2,4-Dimethylphenol	ND	50	5.3	1.00	
Benzoic Acid	ND	50	9.9	1.00	
Bis(2-Chloroethoxy) Methane	ND	50	1.1	1.00	
2,4-Dichlorophenol	ND	50	1.2	1.00	
1,2,4-Trichlorobenzene	ND	50	1.2	1.00	
Naphthalene	ND	25	1.2	1.00	
4-Chloroaniline	ND	50	1.3	1.00	
Hexachloro-1,3-Butadiene	ND	50	1.3	1.00	
4-Chloro-3-Methylphenol	ND	50	1.3	1.00	
2-Methylnaphthalene	ND	25	1.2	1.00	
Hexachlorocyclopentadiene	ND	50	10	1.00	
2,4,6-Trichlorophenol	ND	50	1.5	1.00	
2,4,5-Trichlorophenol	ND	50	1.3	1.00	
2-Chloronaphthalene	ND	50	1.2	1.00	
2-Nitroaniline	ND	50	1.0	1.00	
Dimethyl Phthalate	ND	50	2.3	1.00	
Acenaphthylene	ND	25	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C
Units: ug/smpl

Parameter	Result	RL	MDL	DF	Qualifiers
3-Nitroaniline	ND	50	1.4	1.00	
Acenaphthene	ND	25	1.3	1.00	
2,4-Dinitrophenol	ND	50	6.8	1.00	
4-Nitrophenol	ND	50	1.1	1.00	
Dibenzofuran	ND	50	1.2	1.00	
2,4-Dinitrotoluene	ND	25	1.3	1.00	
2,6-Dinitrotoluene	ND	50	1.5	1.00	
Diethyl Phthalate	ND	50	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	50	1.3	1.00	
Fluorene	ND	25	1.3	1.00	
4-Nitroaniline	ND	50	1.3	1.00	
Azobenzene	ND	50	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	13	1.00	
N-Nitrosodiphenylamine	ND	50	2.7	1.00	
4-Bromophenyl-Phenyl Ether	ND	50	1.2	1.00	
Hexachlorobenzene	ND	25	1.3	1.00	
Pentachlorophenol	ND	50	7.7	1.00	
Phenanthrene	ND	25	1.4	1.00	
Anthracene	ND	25	1.3	1.00	
Di-n-Butyl Phthalate	ND	50	1.2	1.00	
Fluoranthene	ND	25	1.2	1.00	
Benzidine	ND	50	17	1.00	
Pyrene	ND	25	1.5	1.00	
Butyl Benzyl Phthalate	ND	50	1.1	1.00	
3,3'-Dichlorobenzidine	ND	50	7.3	1.00	
Benzo (a) Anthracene	ND	25	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	50	1.1	1.00	
Chrysene	ND	25	1.3	1.00	
Di-n-Octyl Phthalate	ND	50	2.0	1.00	
Benzo (a) Pyrene	ND	25	1.1	1.00	
Benzo (g,h,i) Perylene	ND	25	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	25	1.1	1.00	
Dibenz (a,h) Anthracene	ND	25	0.93	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	89	25-121	
Phenol-d6	90	24-113	
Nitrobenzene-d5	99	23-120	
2-Fluorobiphenyl	85	30-115	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1367
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	ug/smpl
Project: Aliso Canyon / 603287.048		Page 36 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4,6-Tribromophenol	87	19-122	
p-Terphenyl-d14	89	18-137	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR006.D
Acq On : 21 Apr 2016 7:50 pm
Operator : 923
Sample : 16-04-1367-1A
Misc : 10UL S7-16-7
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Hexasiloxane, t...	11.068	14.2	mg/l	1468380	5	10.474	4124720	40.0
Hexasiloxane, t...	11.640	17.8	mg/l	1630840	6	12.272	3662450	40.0
Cyclononasiloxa...	12.844	19.6	mg/l	1794070	6	12.272	3662450	40.0
Cyclononasiloxa...	13.470	18.3	mg/l	1673940	6	12.272	3662450	40.0
Hexasiloxane, t...	14.138	16.6	mg/l	1516860	6	12.272	3662450	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR007.D
Acq On : 21 Apr 2016 8:08 pm
Operator : 923
Sample : 16-04-1367-2A
Misc : 10UL S7-16-7
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Cyclononasiloxa...	11.683	7.7	mg/l	797860	6	12.266	4142510	40.0

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR008.D
Acq On : 21 Apr 2016 8:26 pm
Operator : 923
Sample : 16-04-1367-3A
Misc : 10UL S7-16-7
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR009.D
Acq On : 21 Apr 2016 8:44 pm
Operator : 923
Sample : 16-04-1367-4A
Misc : 10UL S7-16-7
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR010.D
Acq On : 21 Apr 2016 9:03 pm
Operator : 923
Sample : 16-04-1367-5A
Misc : 10UL S7-16-7
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR011.D
Acq On : 21 Apr 2016 9:21 pm
Operator : 923
Sample : 16-04-1367-6A
Misc : 10UL S7-16-7
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR012.D
Acq On : 21 Apr 2016 9:39 pm
Operator : 923
Sample : 16-04-1367-7A
Misc : 10UL S7-16-7
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR013.D
Acq On : 21 Apr 2016 9:57 pm
Operator : 923
Sample : 16-04-1367-8A
Misc : 10UL S7-16-7
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR014.D
Acq On : 21 Apr 2016 10:16 pm
Operator : 923
Sample : 16-04-1367-9A
Misc : 10UL S7-16-7
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Diphenyl sulfone	8.383	4.7	mg/l	462108	4	7.800	3927540	40.0

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Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR015.D
Acq On : 21 Apr 2016 10:34 pm
Operator : 923
Sample : 16-04-1367-10A
Misc : 10UL S7-16-7
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Return to Contents

Library Search Compound Report

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR016.D
Acq On : 21 Apr 2016 10:53 pm
Operator : 923
Sample : 16-04-1367-11A
Misc : 10UL S7-16-7
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1367
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-02-006-51	**LCS**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/21/16 16:38**	**160421L08**
096-02-006-51	**LCSD**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/21/16 17:19**	**160421L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Phenol	200.0	159.1	80	155.7	78	20-120	3-137	2	0-42	
2-Chlorophenol	200.0	171.8	86	164.1	82	23-134	4-152	5	0-40	
1,4-Dichlorobenzene	200.0	164.7	82	158.3	79	20-124	3-141	4	0-28	
N-Nitroso-di-n-propylamine	200.0	186.8	93	178.7	89	0-230	0-268	4	0-38	
1,2,4-Trichlorobenzene	200.0	161.6	81	163.2	82	44-142	28-158	1	0-28	
Naphthalene	200.0	154.7	77	153.4	77	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	200.0	160.7	80	157.8	79	22-147	1-168	2	0-20	
Dimethyl Phthalate	200.0	157.8	79	155.0	77	0-112	0-131	2	0-20	
Acenaphthylene	200.0	152.0	76	150.4	75	33-145	14-164	1	0-20	
Acenaphthene	200.0	163.8	82	161.2	81	47-145	31-161	2	0-31	
4-Nitrophenol	200.0	123.9	62	118.6	59	0-132	0-154	4	0-20	
2,4-Dinitrotoluene	200.0	190.5	95	187.3	94	39-139	22-156	2	0-38	
Fluorene	200.0	153.1	77	148.5	74	59-121	49-131	3	0-20	
Pentachlorophenol	200.0	86.19	43	81.89	41	14-176	0-203	5	0-20	
Pyrene	200.0	173.4	87	162.3	81	52-115	42-126	7	0-20	
Butyl Benzyl Phthalate	200.0	172.0	86	167.4	84	0-152	0-177	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-1367 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8270C	EPA 3545	923	GC/MS CCC	1

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Glossary of Terms and Qualifiers

Work Order: 16-04-1367 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 **16-04-1367**
	Client: Los Angeles County	Sampler Name: Carlos (Vista) / Wallace S.
	Project Location: Aliso Canyon	Date: 4-20-16

	Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
1	[redacted]	100 cm²	Gauze Wipe	Classroom # 2-136 NW facing window sill	8270 SVOCs
2		100 cm²	Gauze Wipe	Classroom #3-101A (plant manager's room) ~~N/E~~ 4-20-16 WBS N facing window sill	"
3		100 cm²	Gauze Wipe	Room # 2-154 in Library E facing window sill	"
4		100 cm²	Gauze wipe	Classroom # 4-110 N facing window sill	"
5		100 cm²	Gauze wipe	Classroom # 4-212 N facing window sill	"
6		100 cm²	Gauze wipe	Main office top central cabinet below comm. box	"
7		100 cm²	Gauze wipe	Classroom #3 N central - cubby top	"
8		100 cm²	Gauze wipe	Classroom #7 N - facing window sill	"
9		100 cm²	Gauze wipe	Classroom #13 N - facing window sill	"
10		100 cm²	Gauze wipe	Library Top of pony wall - N-NE @ reading area	"

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: [redacted]	Date: 4-20-16	Time: 1600	Received by: [redacted]	Date: 4/20/16	Time: 1930
Relinquished by: [redacted]	Date: 4/21/16	Time: 1135	Received by: [redacted]	Date: 4/21/16	Time: 1135
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (1367)
	Client: Los Angeles County	Sampler Name: Carlos (Vista) / Wallace S.
	Project Location: Aliso Canyon	Date: 4-20-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
[redacted] (11)	100 cm²	Gauze wipe	Blank	8270 SVOCs
	100 cm²	Charcoal wipe	Blank	NIOSH 1500/1501
	100 cm²	Ghost wipe	Blank	NIOSH 7300
			Charcoal + Ghost Wipe Samples (Blank) - Not submitted to Eurofins Calscience	

MDC

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WORK ORDER NUMBER: 16-04- 1367

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Leighton Consulting, Inc.

DATE: 04 / 21 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 2.6 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SM6

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: SM6
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: SM6

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☑	☐
☐ Sampling date ☑ Sampling time ☐ Matrix ☐ Number of containers (WTC 04-21-16)			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (Wipe): ☑ 4 oz CGJ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SM6

Reviewed by: ZD

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Wipe Samples – Metals and Total Hydrocarbons (3/25/16, 3/28/16, and 4/20/16)

Leighton

Ms. Meredith Church
Leighton
17781 Cowan
Irvine, CA 92614

March 29, 2016

DOH ELAP #11626 Account# 30549 Login# L370751
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on March 28, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<250	<2.5
L370751-4	100	<250	<2.5
L370751-6	100	<250	<2.5
L370751-8	100	<250	<2.5
L370751-9	100	<250	<2.5
L370751-14	100	270	2.7
L370751-15	100	<250	<2.5
L370751-16	NA	<250	NA
L370751-18	100	<250	<2.5
L370751-20	100	<250	<2.5
L370751-22	100	<250	<2.5
L370751-23	NA	<250	NA
L370751-25	100	<250	<2.5
L370751-27	100	<250	<2.5
L370751-29	100	<250	<2.5
L370751-31	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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East Syracuse, NY 13057
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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<250	<2.5
L370751-35	100	<250	<2.5
L370751-37	100	<250	<2.5
L370751-39	100	<250	<2.5
L370751-41	100	<250	<2.5
L370751-43	100	1300	13
L370751-45	100	<250	<2.5
L370751-47	100	<250	<2.5
L370751-49	100	<250	<2.5
L370751-51	100	<250	<2.5
L370751-53	100	<250	<2.5
L370751-55	100	<250	<2.5
L370751-58	100	<250	<2.5
L370751-60	100	<250	<2.5
L370751-62	100	<250	<2.5
L370751-63	NA	<250	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<250	<2.5
L370751-68	NA	<250	NA
L370751-70	100	<250	<2.5
L370751-72	100	<250	<2.5
L370751-74	100	<250	<2.5
L370751-76	100	<250	<2.5
L370751-78	100	<250	<2.5
L370751-80	100	<250	<2.5
L370751-82	100	<250	<2.5
L370751-84	100	<250	<2.5
L370751-86	100	<250	<2.5
L370751-88	100	<250	<2.5
L370751-90	NA	<250	NA
L370751-92	100	<250	<2.5
L370751-94	100	<250	<2.5
L370751-96	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<250	<2.5
L370751-100	100	<250	<2.5
L370751-101	100	<250	<2.5
L370751-103	100	<250	<2.5
L370751-105	100	<250	<2.5
L370751-109	100	1700	17
L370751-110	100	1600	16
L370751-112	100	270	2.7
L370751-114	100	<250	<2.5
L370751-116	100	<250	<2.5
L370751-118	NA	<250	NA
L370751-120	100	<250	<2.5
L370751-122	NA	<250	NA
L370751-124	100	<250	<2.5
L370751-126	100	<250	<2.5
L370751-127	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<250	<2.5
L370751-132	NA	<250	NA
L370751-137	100	<250	<2.5
L370751-138	100	<250	<2.5
L370751-139	100	<250	<2.5
L370751-141	100	<250	<2.5
L370751-143	100	<250	<2.5
L370751-144	NA	<250	NA
L370751-146	100	<250	<2.5
L370751-147	100	<250	<2.5
L370751-148	100	<250	<2.5
L370751-149	NA	<250	NA
L370751-150	100	<250	<2.5
L370751-156	100	<250	<2.5
L370751-158	100	<250	<2.5
L370751-160	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<250	NA
L370751-164	100	<250	<2.5
L370751-166	100	<250	<2.5
L370751-168	100	270	2.7
L370751-170	100	500	5.0
L370751-172	100	<250	<2.5
L370751-174	100	<250	<2.5
L370751-176	100	<250	<2.5
L370751-180	100	<250	<2.5
L370751-181	100	<250	<2.5
L370751-182	NA	<250	NA
L370751-183	100	<250	<2.5
L370751-185	100	<250	<2.5
L370751-187	100	<250	<2.5
L370751-190	100	<250	<2.5
L370751-192	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929075

Aluminum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<250	<2.5
L370751-202	100	<250	<2.5
L370751-203	100	<250	<2.5
L370751-204	100	<250	<2.5
L370751-205	100	510	5.1
L370751-206	100	<250	<2.5
L370751-207	100	<250	<2.5
L370751-208	100	<250	<2.5
L370751-210	100	<250	<2.5
L370751-212	100	<250	<2.5
L370751-214	100	<250	<2.5
L370751-216	NA	<250	NA
L370751-218	100	<250	<2.5
L370751-220	100	730	7.3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929076

Barium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-2	100	<5.0	<0.050
	L370751-4	100	7.6	0.076
	L370751-6	100	<5.0	<0.050
	L370751-8	100	<5.0	<0.050
	L370751-9	100	<5.0	<0.050
	L370751-14	100	23	0.23
	L370751-15	100	5.4	0.054
	L370751-16	NA	<5.0	NA
	L370751-18	100	<5.0	<0.050
	L370751-20	100	<5.0	<0.050
	L370751-22	100	<5.0	<0.050
	L370751-23	NA	<5.0	NA
	L370751-25	100	<5.0	<0.050
	L370751-27	100	<5.0	<0.050
	L370751-29	100	<5.0	<0.050
	L370751-31	100	8.2	0.082

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929076

Barium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-32	100	<5.0	<0.050
	L370751-35	100	<5.0	<0.050
	L370751-37	100	<5.0	<0.050
	L370751-39	100	<5.0	<0.050
	L370751-41	100	<5.0	<0.050
	L370751-43	100	50	0.50
	L370751-45	100	<5.0	<0.050
	L370751-47	100	<5.0	<0.050
	L370751-49	100	9.6	0.096
	L370751-51	100	<5.0	<0.050
	L370751-53	100	<5.0	<0.050
	L370751-55	100	<5.0	<0.050
	L370751-58	100	<5.0	<0.050
	L370751-60	100	<5.0	<0.050
	L370751-62	100	<5.0	<0.050
	L370751-63	NA	<5.0	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929076

Barium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<5.0	<0.050
L370751-68	NA	<5.0	NA
L370751-70	100	<5.0	<0.050
L370751-72	100	<5.0	<0.050
L370751-74	100	<5.0	<0.050
L370751-76	100	<5.0	<0.050
L370751-78	100	6.3	0.063
L370751-80	100	<5.0	<0.050
L370751-82	100	<5.0	<0.050
L370751-84	100	<5.0	<0.050
L370751-86	100	<5.0	<0.050
L370751-88	100	<5.0	<0.050
L370751-90	NA	<5.0	NA
L370751-92	100	<5.0	<0.050
L370751-94	100	<5.0	<0.050
L370751-96	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929076

Barium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	6.9	0.069
L370751-100	100	<5.0	<0.050
L370751-101	100	<5.0	<0.050
L370751-103	100	<5.0	<0.050
L370751-105	100	<5.0	<0.050
L370751-109	100	29	0.29
L370751-110	100	25	0.25
L370751-112	100	6.1	0.061
L370751-114	100	<5.0	<0.050
L370751-116	100	7.6	0.076
L370751-118	NA	<5.0	NA
L370751-120	100	<5.0	<0.050
L370751-122	NA	<5.0	NA
L370751-124	100	<5.0	<0.050
L370751-126	100	<5.0	<0.050
L370751-127	100	7.2	0.072

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Barium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<5.0	<0.050
L370751-132	NA	<5.0	NA
L370751-137	100	<5.0	<0.050
L370751-138	100	<5.0	<0.050
L370751-139	100	<5.0	<0.050
L370751-141	100	<5.0	<0.050
L370751-143	100	<5.0	<0.050
L370751-144	NA	<5.0	NA
L370751-146	100	<5.0	<0.050
L370751-147	100	8.2	0.082
L370751-148	100	<5.0	<0.050
L370751-149	NA	<5.0	NA
L370751-150	100	<5.0	<0.050
L370751-156	100	<5.0	<0.050
L370751-158	100	<5.0	<0.050
L370751-160	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929076

Barium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<5.0	NA
L370751-164	100	<5.0	<0.050
L370751-166	100	<5.0	<0.050
L370751-168	100	27	0.27
L370751-170	100	25	0.25
L370751-172	100	<5.0	<0.050
L370751-174	100	<5.0	<0.050
L370751-176	100	<5.0	<0.050
L370751-180	100	<5.0	<0.050
L370751-181	100	<5.0	<0.050
L370751-182	NA	<5.0	NA
L370751-183	100	<5.0	<0.050
L370751-185	100	<5.0	<0.050
L370751-187	100	<5.0	<0.050
L370751-190	100	<5.0	<0.050
L370751-192	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929076

Barium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<5.0	<0.050
L370751-202	100	<5.0	<0.050
L370751-203	100	<5.0	<0.050
L370751-204	100	<5.0	<0.050
L370751-205	100	11	0.11
L370751-206	100	<5.0	<0.050
L370751-207	100	<5.0	<0.050
L370751-208	100	<5.0	<0.050
L370751-210	100	<5.0	<0.050
L370751-212	100	<5.0	<0.050
L370751-214	100	<5.0	<0.050
L370751-216	NA	<5.0	NA
L370751-218	100	<5.0	<0.050
L370751-220	100	20	0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929077

Beryllium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-2	100	<0.50	<0.0050
	L370751-4	100	<0.50	<0.0050
	L370751-6	100	<0.50	<0.0050
	L370751-8	100	<0.50	<0.0050
	L370751-9	100	<0.50	<0.0050
	L370751-14	100	<0.50	<0.0050
	L370751-15	100	<0.50	<0.0050
	L370751-16	NA	<0.50	NA
	L370751-18	100	<0.50	<0.0050
	L370751-20	100	<0.50	<0.0050
	L370751-22	100	<0.50	<0.0050
	L370751-23	NA	<0.50	NA
	L370751-25	100	<0.50	<0.0050
	L370751-27	100	<0.50	<0.0050
	L370751-29	100	<0.50	<0.0050
	L370751-31	100	<0.50	<0.0050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929077

Beryllium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<0.50	<0.0050
L370751-35	100	<0.50	<0.0050
L370751-37	100	<0.50	<0.0050
L370751-39	100	<0.50	<0.0050
L370751-41	100	<0.50	<0.0050
L370751-43	100	<0.50	<0.0050
L370751-45	100	<0.50	<0.0050
L370751-47	100	<0.50	<0.0050
L370751-49	100	<0.50	<0.0050
L370751-51	100	<0.50	<0.0050
L370751-53	100	<0.50	<0.0050
L370751-55	100	<0.50	<0.0050
L370751-58	100	<0.50	<0.0050
L370751-60	100	<0.50	<0.0050
L370751-62	100	<0.50	<0.0050
L370751-63	NA	<0.50	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929077

Beryllium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<0.50	<0.0050
L370751-68	NA	<0.50	NA
L370751-70	100	<0.50	<0.0050
L370751-72	100	<0.50	<0.0050
L370751-74	100	<0.50	<0.0050
L370751-76	100	<0.50	<0.0050
L370751-78	100	<0.50	<0.0050
L370751-80	100	<0.50	<0.0050
L370751-82	100	<0.50	<0.0050
L370751-84	100	<0.50	<0.0050
L370751-86	100	<0.50	<0.0050
L370751-88	100	<0.50	<0.0050
L370751-90	NA	<0.50	NA
L370751-92	100	<0.50	<0.0050
L370751-94	100	<0.50	<0.0050
L370751-96	100	<0.50	<0.0050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Analyzed : 28-MAR-16 - 29-MAR-16
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Beryllium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<0.50	<0.0050
L370751-100	100	<0.50	<0.0050
L370751-101	100	<0.50	<0.0050
L370751-103	100	<0.50	<0.0050
L370751-105	100	<0.50	<0.0050
L370751-109	100	<0.50	<0.0050
L370751-110	100	<0.50	<0.0050
L370751-112	100	<0.50	<0.0050
L370751-114	100	<0.50	<0.0050
L370751-116	100	<0.50	<0.0050
L370751-118	NA	<0.50	NA
L370751-120	100	<0.50	<0.0050
L370751-122	NA	<0.50	NA
L370751-124	100	<0.50	<0.0050
L370751-126	100	<0.50	<0.0050
L370751-127	100	<0.50	<0.0050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929077

Beryllium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<0.50	<0.0050
L370751-132	NA	<0.50	NA
L370751-137	100	<0.50	<0.0050
L370751-138	100	<0.50	<0.0050
L370751-139	100	<0.50	<0.0050
L370751-141	100	<0.50	<0.0050
L370751-143	100	<0.50	<0.0050
L370751-144	NA	<0.50	NA
L370751-146	100	<0.50	<0.0050
L370751-147	100	<0.50	<0.0050
L370751-148	100	<0.50	<0.0050
L370751-149	NA	<0.50	NA
L370751-150	100	<0.50	<0.0050
L370751-156	100	<0.50	<0.0050
L370751-158	100	<0.50	<0.0050
L370751-160	100	<0.50	<0.0050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929077

Beryllium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<0.50	NA
L370751-164	100	<0.50	<0.0050
L370751-166	100	<0.50	<0.0050
L370751-168	100	<0.50	<0.0050
L370751-170	100	<0.50	<0.0050
L370751-172	100	<0.50	<0.0050
L370751-174	100	<0.50	<0.0050
L370751-176	100	<0.50	<0.0050
L370751-180	100	<0.50	<0.0050
L370751-181	100	<0.50	<0.0050
L370751-182	NA	<0.50	NA
L370751-183	100	<0.50	<0.0050
L370751-185	100	<0.50	<0.0050
L370751-187	100	<0.50	<0.0050
L370751-190	100	<0.50	<0.0050
L370751-192	100	<0.50	<0.0050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929077

Beryllium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<0.50	<0.0050
L370751-202	100	<0.50	<0.0050
L370751-203	100	<0.50	<0.0050
L370751-204	100	<0.50	<0.0050
L370751-205	100	<0.50	<0.0050
L370751-206	100	<0.50	<0.0050
L370751-207	100	<0.50	<0.0050
L370751-208	100	<0.50	<0.0050
L370751-210	100	<0.50	<0.0050
L370751-212	100	<0.50	<0.0050
L370751-214	100	<0.50	<0.0050
L370751-216	NA	<0.50	NA
L370751-218	100	<0.50	<0.0050
L370751-220	100	<0.50	<0.0050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.50 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<1.5	<0.015
L370751-4	100	<1.5	<0.015
L370751-6	100	<1.5	<0.015
L370751-8	100	<1.5	<0.015
L370751-9	100	<1.5	<0.015
L370751-14	100	6.2	0.062
L370751-15	100	<1.5	<0.015
L370751-16	NA	<1.5	NA
L370751-18	100	<1.5	<0.015
L370751-20	100	<1.5	<0.015
L370751-22	100	<1.5	<0.015
L370751-23	NA	<1.5	NA
L370751-25	100	<1.5	<0.015
L370751-27	100	<1.5	<0.015
L370751-29	100	<1.5	<0.015
L370751-31	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<1.5	<0.015
L370751-35	100	<1.5	<0.015
L370751-37	100	<1.5	<0.015
L370751-39	100	<1.5	<0.015
L370751-41	100	<1.5	<0.015
L370751-43	100	<1.5	<0.015
L370751-45	100	<1.5	<0.015
L370751-47	100	<1.5	<0.015
L370751-49	100	<1.5	<0.015
L370751-51	100	<1.5	<0.015
L370751-53	100	<1.5	<0.015
L370751-55	100	<1.5	<0.015
L370751-58	100	<1.5	<0.015
L370751-60	100	<1.5	<0.015
L370751-62	100	<1.5	<0.015
L370751-63	NA	<1.5	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<1.5	<0.015
L370751-68	NA	<1.5	NA
L370751-70	100	<1.5	<0.015
L370751-72	100	<1.5	<0.015
L370751-74	100	<1.5	<0.015
L370751-76	100	<1.5	<0.015
L370751-78	100	<1.5	<0.015
L370751-80	100	<1.5	<0.015
L370751-82	100	<1.5	<0.015
L370751-84	100	<1.5	<0.015
L370751-86	100	<1.5	<0.015
L370751-88	100	<1.5	<0.015
L370751-90	NA	<1.5	NA
L370751-92	100	<1.5	<0.015
L370751-94	100	<1.5	<0.015
L370751-96	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Site : Aliso Canyon
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Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<1.5	<0.015
L370751-100	100	<1.5	<0.015
L370751-101	100	<1.5	<0.015
L370751-103	100	<1.5	<0.015
L370751-105	100	<1.5	<0.015
L370751-109	100	<1.5	<0.015
L370751-110	100	<1.5	<0.015
L370751-112	100	<1.5	<0.015
L370751-114	100	<1.5	<0.015
L370751-116	100	<1.5	<0.015
L370751-118	NA	<1.5	NA
L370751-120	100	<1.5	<0.015
L370751-122	NA	<1.5	NA
L370751-124	100	<1.5	<0.015
L370751-126	100	<1.5	<0.015
L370751-127	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<1.5	<0.015
L370751-132	NA	<1.5	NA
L370751-137	100	<1.5	<0.015
L370751-138	100	<1.5	<0.015
L370751-139	100	<1.5	<0.015
L370751-141	100	<1.5	<0.015
L370751-143	100	<1.5	<0.015
L370751-144	NA	<1.5	NA
L370751-146	100	<1.5	<0.015
L370751-147	100	<1.5	<0.015
L370751-148	100	<1.5	<0.015
L370751-149	NA	<1.5	NA
L370751-150	100	<1.5	<0.015
L370751-156	100	<1.5	<0.015
L370751-158	100	<1.5	<0.015
L370751-160	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<1.5	NA
L370751-164	100	<1.5	<0.015
L370751-166	100	<1.5	<0.015
L370751-168	100	<1.5	<0.015
L370751-170	100	1.9	0.019
L370751-172	100	<1.5	<0.015
L370751-174	100	<1.5	<0.015
L370751-176	100	<1.5	<0.015
L370751-180	100	<1.5	<0.015
L370751-181	100	<1.5	<0.015
L370751-182	NA	<1.5	NA
L370751-183	100	<1.5	<0.015
L370751-185	100	<1.5	<0.015
L370751-187	100	<1.5	<0.015
L370751-190	100	<1.5	<0.015
L370751-192	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929078

Cadmium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<1.5	<0.015
L370751-202	100	<1.5	<0.015
L370751-203	100	<1.5	<0.015
L370751-204	100	<1.5	<0.015
L370751-205	100	<1.5	<0.015
L370751-206	100	<1.5	<0.015
L370751-207	100	<1.5	<0.015
L370751-208	100	<1.5	<0.015
L370751-210	100	<1.5	<0.015
L370751-212	100	<1.5	<0.015
L370751-214	100	<1.5	<0.015
L370751-216	NA	<1.5	NA
L370751-218	100	<1.5	<0.015
L370751-220	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<1.5	<0.015
L370751-4	100	<1.5	<0.015
L370751-6	100	<1.5	<0.015
L370751-8	100	<1.5	<0.015
L370751-9	100	<1.5	<0.015
L370751-14	100	<1.5	<0.015
L370751-15	100	<1.5	<0.015
L370751-16	NA	<1.5	NA
L370751-18	100	<1.5	<0.015
L370751-20	100	<1.5	<0.015
L370751-22	100	<1.5	<0.015
L370751-23	NA	<1.5	NA
L370751-25	100	<1.5	<0.015
L370751-27	100	<1.5	<0.015
L370751-29	100	<1.5	<0.015
L370751-31	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<1.5	<0.015
L370751-35	100	<1.5	<0.015
L370751-37	100	<1.5	<0.015
L370751-39	100	<1.5	<0.015
L370751-41	100	<1.5	<0.015
L370751-43	100	<1.5	<0.015
L370751-45	100	<1.5	<0.015
L370751-47	100	<1.5	<0.015
L370751-49	100	<1.5	<0.015
L370751-51	100	<1.5	<0.015
L370751-53	100	<1.5	<0.015
L370751-55	100	<1.5	<0.015
L370751-58	100	<1.5	<0.015
L370751-60	100	<1.5	<0.015
L370751-62	100	<1.5	<0.015
L370751-63	NA	<1.5	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-66	100	<1.5	<0.015
	L370751-68	NA	<1.5	NA
	L370751-70	100	<1.5	<0.015
	L370751-72	100	<1.5	<0.015
	L370751-74	100	<1.5	<0.015
	L370751-76	100	<1.5	<0.015
	L370751-78	100	<1.5	<0.015
	L370751-80	100	<1.5	<0.015
	L370751-82	100	<1.5	<0.015
	L370751-84	100	<1.5	<0.015
	L370751-86	100	<1.5	<0.015
	L370751-88	100	<1.5	<0.015
	L370751-90	NA	<1.5	NA
	L370751-92	100	<1.5	<0.015
	L370751-94	100	<1.5	<0.015
	L370751-96	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<1.5	<0.015
L370751-100	100	<1.5	<0.015
L370751-101	100	<1.5	<0.015
L370751-103	100	<1.5	<0.015
L370751-105	100	1.8	0.018
L370751-109	100	1.7	0.017
L370751-110	100	1.6	0.016
L370751-112	100	<1.5	<0.015
L370751-114	100	<1.5	<0.015
L370751-116	100	<1.5	<0.015
L370751-118	NA	<1.5	NA
L370751-120	100	<1.5	<0.015
L370751-122	NA	<1.5	NA
L370751-124	100	<1.5	<0.015
L370751-126	100	<1.5	<0.015
L370751-127	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<1.5	<0.015
L370751-132	NA	<1.5	NA
L370751-137	100	<1.5	<0.015
L370751-138	100	<1.5	<0.015
L370751-139	100	<1.5	<0.015
L370751-141	100	<1.5	<0.015
L370751-143	100	<1.5	<0.015
L370751-144	NA	<1.5	NA
L370751-146	100	<1.5	<0.015
L370751-147	100	<1.5	<0.015
L370751-148	100	<1.5	<0.015
L370751-149	NA	<1.5	NA
L370751-150	100	<1.5	<0.015
L370751-156	100	<1.5	<0.015
L370751-158	100	<1.5	<0.015
L370751-160	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<1.5	NA
L370751-164	100	<1.5	<0.015
L370751-166	100	<1.5	<0.015
L370751-168	100	<1.5	<0.015
L370751-170	100	<1.5	<0.015
L370751-172	100	<1.5	<0.015
L370751-174	100	<1.5	<0.015
L370751-176	100	<1.5	<0.015
L370751-180	100	<1.5	<0.015
L370751-181	100	<1.5	<0.015
L370751-182	NA	<1.5	NA
L370751-183	100	<1.5	<0.015
L370751-185	100	<1.5	<0.015
L370751-187	100	<1.5	<0.015
L370751-190	100	<1.5	<0.015
L370751-192	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929079

Cobalt

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<1.5	<0.015
L370751-202	100	<1.5	<0.015
L370751-203	100	<1.5	<0.015
L370751-204	100	<1.5	<0.015
L370751-205	100	<1.5	<0.015
L370751-206	100	<1.5	<0.015
L370751-207	100	<1.5	<0.015
L370751-208	100	<1.5	<0.015
L370751-210	100	<1.5	<0.015
L370751-212	100	<1.5	<0.015
L370751-214	100	<1.5	<0.015
L370751-216	NA	<1.5	NA
L370751-218	100	<1.5	<0.015
L370751-220	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<5.0	<0.050
L370751-4	100	<5.0	<0.050
L370751-6	100	<5.0	<0.050
L370751-8	100	<5.0	<0.050
L370751-9	100	<5.0	<0.050
L370751-14	100	<5.0	<0.050
L370751-15	100	<5.0	<0.050
L370751-16	NA	<5.0	NA
L370751-18	100	<5.0	<0.050
L370751-20	100	<5.0	<0.050
L370751-22	100	<5.0	<0.050
L370751-23	NA	<5.0	NA
L370751-25	100	<5.0	<0.050
L370751-27	100	<5.0	<0.050
L370751-29	100	<5.0	<0.050
L370751-31	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-32	100	<5.0	<0.050
	L370751-35	100	<5.0	<0.050
	L370751-37	100	<5.0	<0.050
	L370751-39	100	<5.0	<0.050
	L370751-41	100	<5.0	<0.050
	L370751-43	100	18	0.18
	L370751-45	100	<5.0	<0.050
	L370751-47	100	<5.0	<0.050
	L370751-49	100	<5.0	<0.050
	L370751-51	100	<5.0	<0.050
	L370751-53	100	<5.0	<0.050
	L370751-55	100	<5.0	<0.050
	L370751-58	100	<5.0	<0.050
	L370751-60	100	<5.0	<0.050
	L370751-62	100	<5.0	<0.050
	L370751-63	NA	<5.0	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<5.0	<0.050
L370751-68	NA	<5.0	NA
L370751-70	100	<5.0	<0.050
L370751-72	100	<5.0	<0.050
L370751-74	100	<5.0	<0.050
L370751-76	100	<5.0	<0.050
L370751-78	100	<5.0	<0.050
L370751-80	100	<5.0	<0.050
L370751-82	100	<5.0	<0.050
L370751-84	100	<5.0	<0.050
L370751-86	100	<5.0	<0.050
L370751-88	100	<5.0	<0.050
L370751-90	NA	<5.0	NA
L370751-92	100	<5.0	<0.050
L370751-94	100	<5.0	<0.050
L370751-96	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<5.0	<0.050
L370751-100	100	<5.0	<0.050
L370751-101	100	<5.0	<0.050
L370751-103	100	<5.0	<0.050
L370751-105	100	<5.0	<0.050
L370751-109	100	<5.0	<0.050
L370751-110	100	<5.0	<0.050
L370751-112	100	<5.0	<0.050
L370751-114	100	<5.0	<0.050
L370751-116	100	<5.0	<0.050
L370751-118	NA	<5.0	NA
L370751-120	100	<5.0	<0.050
L370751-122	NA	<5.0	NA
L370751-124	100	<5.0	<0.050
L370751-126	100	<5.0	<0.050
L370751-127	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<5.0	<0.050
L370751-132	NA	<5.0	NA
L370751-137	100	<5.0	<0.050
L370751-138	100	<5.0	<0.050
L370751-139	100	<5.0	<0.050
L370751-141	100	<5.0	<0.050
L370751-143	100	<5.0	<0.050
L370751-144	NA	<5.0	NA
L370751-146	100	<5.0	<0.050
L370751-147	100	<5.0	<0.050
L370751-148	100	<5.0	<0.050
L370751-149	NA	<5.0	NA
L370751-150	100	<5.0	<0.050
L370751-156	100	<5.0	<0.050
L370751-158	100	<5.0	<0.050
L370751-160	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<5.0	NA
L370751-164	100	<5.0	<0.050
L370751-166	100	<5.0	<0.050
L370751-168	100	<5.0	<0.050
L370751-170	100	<5.0	<0.050
L370751-172	100	<5.0	<0.050
L370751-174	100	<5.0	<0.050
L370751-176	100	<5.0	<0.050
L370751-180	100	<5.0	<0.050
L370751-181	100	<5.0	<0.050
L370751-182	NA	<5.0	NA
L370751-183	100	<5.0	<0.050
L370751-185	100	<5.0	<0.050
L370751-187	100	<5.0	<0.050
L370751-190	100	<5.0	<0.050
L370751-192	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929080

Chromium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<5.0	<0.050
L370751-202	100	<5.0	<0.050
L370751-203	100	<5.0	<0.050
L370751-204	100	<5.0	<0.050
L370751-205	100	<5.0	<0.050
L370751-206	100	<5.0	<0.050
L370751-207	100	<5.0	<0.050
L370751-208	100	<5.0	<0.050
L370751-210	100	<5.0	<0.050
L370751-212	100	<5.0	<0.050
L370751-214	100	<5.0	<0.050
L370751-216	NA	<5.0	NA
L370751-218	100	<5.0	<0.050
L370751-220	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	230	2.3
L370751-4	100	<20	<0.20
L370751-6	100	<20	<0.20
L370751-8	100	<20	<0.20
L370751-9	100	<20	<0.20
L370751-14	100	23	0.23
L370751-15	100	<20	<0.20
L370751-16	NA	<20	NA
L370751-18	100	<20	<0.20
L370751-20	100	<20	<0.20
L370751-22	100	<20	<0.20
L370751-23	NA	<20	NA
L370751-25	100	<20	<0.20
L370751-27	100	<20	<0.20
L370751-29	100	<20	<0.20
L370751-31	100	<20	<0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<20	<0.20
L370751-35	100	<20	<0.20
L370751-37	100	<20	<0.20
L370751-39	100	<20	<0.20
L370751-41	100	<20	<0.20
L370751-43	100	<20	<0.20
L370751-45	100	<20	<0.20
L370751-47	100	<20	<0.20
L370751-49	100	<20	<0.20
L370751-51	100	<20	<0.20
L370751-53	100	<20	<0.20
L370751-55	100	<20	<0.20
L370751-58	100	<20	<0.20
L370751-60	100	<20	<0.20
L370751-62	100	<20	<0.20
L370751-63	NA	<20	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<20	<0.20
L370751-68	NA	<20	NA
L370751-70	100	<20	<0.20
L370751-72	100	<20	<0.20
L370751-74	100	<20	<0.20
L370751-76	100	<20	<0.20
L370751-78	100	<20	<0.20
L370751-80	100	<20	<0.20
L370751-82	100	<20	<0.20
L370751-84	100	<20	<0.20
L370751-86	100	<20	<0.20
L370751-88	100	<20	<0.20
L370751-90	NA	<20	NA
L370751-92	100	<20	<0.20
L370751-94	100	<20	<0.20
L370751-96	100	<20	<0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<20	<0.20
L370751-100	100	<20	<0.20
L370751-101	100	<20	<0.20
L370751-103	100	<20	<0.20
L370751-105	100	<20	<0.20
L370751-109	100	<20	<0.20
L370751-110	100	<20	<0.20
L370751-112	100	<20	<0.20
L370751-114	100	<20	<0.20
L370751-116	100	<20	<0.20
L370751-118	NA	<20	NA
L370751-120	100	<20	<0.20
L370751-122	NA	<20	NA
L370751-124	100	<20	<0.20
L370751-126	100	<20	<0.20
L370751-127	100	<20	<0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<20	<0.20
L370751-132	NA	<20	NA
L370751-137	100	<20	<0.20
L370751-138	100	<20	<0.20
L370751-139	100	<20	<0.20
L370751-141	100	<20	<0.20
L370751-143	100	<20	<0.20
L370751-144	NA	<20	NA
L370751-146	100	<20	<0.20
L370751-147	100	<20	<0.20
L370751-148	100	<20	<0.20
L370751-149	NA	<20	NA
L370751-150	100	<20	<0.20
L370751-156	100	<20	<0.20
L370751-158	100	<20	<0.20
L370751-160	100	<20	<0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<20	NA
L370751-164	100	<20	<0.20
L370751-166	100	<20	<0.20
L370751-168	100	<20	<0.20
L370751-170	100	<20	<0.20
L370751-172	100	<20	<0.20
L370751-174	100	<20	<0.20
L370751-176	100	<20	<0.20
L370751-180	100	<20	<0.20
L370751-181	100	<20	<0.20
L370751-182	NA	<20	NA
L370751-183	100	<20	<0.20
L370751-185	100	<20	<0.20
L370751-187	100	<20	<0.20
L370751-190	100	<20	<0.20
L370751-192	100	<20	<0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929081

Copper

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<20	<0.20
L370751-202	100	<20	<0.20
L370751-203	100	<20	<0.20
L370751-204	100	<20	<0.20
L370751-205	100	<20	<0.20
L370751-206	100	<20	<0.20
L370751-207	100	<20	<0.20
L370751-208	100	<20	<0.20
L370751-210	100	<20	<0.20
L370751-212	100	<20	<0.20
L370751-214	100	<20	<0.20
L370751-216	NA	<20	NA
L370751-218	100	<20	<0.20
L370751-220	100	<20	<0.20

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 20. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<250	<2.5
L370751-4	100	330	3.3
L370751-6	100	<250	<2.5
L370751-8	100	<250	<2.5
L370751-9	100	<250	<2.5
L370751-14	100	440	4.4
L370751-15	100	<250	<2.5
L370751-16	NA	<250	NA
L370751-18	100	<250	<2.5
L370751-20	100	<250	<2.5
L370751-22	100	<250	<2.5
L370751-23	NA	<250	NA
L370751-25	100	280	2.8
L370751-27	100	420	4.2
L370751-29	100	<250	<2.5
L370751-31	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
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Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<250	<2.5
L370751-35	100	<250	<2.5
L370751-37	100	<250	<2.5
L370751-39	100	<250	<2.5
L370751-41	100	<250	<2.5
L370751-43	100	3100	31
L370751-45	100	<250	<2.5
L370751-47	100	<250	<2.5
L370751-49	100	330	3.3
L370751-51	100	<250	<2.5
L370751-53	100	<250	<2.5
L370751-55	100	<250	<2.5
L370751-58	100	<250	<2.5
L370751-60	100	<250	<2.5
L370751-62	100	<250	<2.5
L370751-63	NA	<250	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-66	100	<250	<2.5
	L370751-68	NA	<250	NA
	L370751-70	100	<250	<2.5
	L370751-72	100	<250	<2.5
	L370751-74	100	<250	<2.5
	L370751-76	100	<250	<2.5
	L370751-78	100	<250	<2.5
	L370751-80	100	<250	<2.5
	L370751-82	100	<250	<2.5
	L370751-84	100	<250	<2.5
	L370751-86	100	<250	<2.5
	L370751-88	100	<250	<2.5
	L370751-90	NA	<250	NA
	L370751-92	100	<250	<2.5
	L370751-94	100	<250	<2.5
	L370751-96	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	550	5.5
L370751-100	100	<250	<2.5
L370751-101	100	<250	<2.5
L370751-103	100	<250	<2.5
L370751-105	100	<250	<2.5
L370751-109	100	3900	39
L370751-110	100	3600	36
L370751-112	100	620	6.2
L370751-114	100	<250	<2.5
L370751-116	100	<250	<2.5
L370751-118	NA	<250	NA
L370751-120	100	<250	<2.5
L370751-122	NA	<250	NA
L370751-124	100	<250	<2.5
L370751-126	100	<250	<2.5
L370751-127	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<250	<2.5
L370751-132	NA	<250	NA
L370751-137	100	<250	<2.5
L370751-138	100	<250	<2.5
L370751-139	100	<250	<2.5
L370751-141	100	<250	<2.5
L370751-143	100	<250	<2.5
L370751-144	NA	<250	NA
L370751-146	100	<250	<2.5
L370751-147	100	320	3.2
L370751-148	100	<250	<2.5
L370751-149	NA	<250	NA
L370751-150	100	<250	<2.5
L370751-156	100	<250	<2.5
L370751-158	100	<250	<2.5
L370751-160	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<250	NA
L370751-164	100	<250	<2.5
L370751-166	100	<250	<2.5
L370751-168	100	<250	<2.5
L370751-170	100	1000	10
L370751-172	100	<250	<2.5
L370751-174	100	<250	<2.5
L370751-176	100	<250	<2.5
L370751-180	100	<250	<2.5
L370751-181	100	<250	<2.5
L370751-182	NA	<250	NA
L370751-183	100	<250	<2.5
L370751-185	100	<250	<2.5
L370751-187	100	<250	<2.5
L370751-190	100	<250	<2.5
L370751-192	100	<250	<2.5

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929082

Iron

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<250	<2.5
L370751-202	100	<250	<2.5
L370751-203	100	<250	<2.5
L370751-204	100	<250	<2.5
L370751-205	100	1200	12
L370751-206	100	<250	<2.5
L370751-207	100	<250	<2.5
L370751-208	100	<250	<2.5
L370751-210	100	<250	<2.5
L370751-212	100	<250	<2.5
L370751-214	100	<250	<2.5
L370751-216	NA	<250	NA
L370751-218	100	<250	<2.5
L370751-220	100	1400	14

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 250 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<5.0	<0.050
L370751-4	100	6.8	0.068
L370751-6	100	<5.0	<0.050
L370751-8	100	<5.0	<0.050
L370751-9	100	<5.0	<0.050
L370751-14	100	8.3	0.083
L370751-15	100	<5.0	<0.050
L370751-16	NA	<5.0	NA
L370751-18	100	<5.0	<0.050
L370751-20	100	<5.0	<0.050
L370751-22	100	<5.0	<0.050
L370751-23	NA	<5.0	NA
L370751-25	100	<5.0	<0.050
L370751-27	100	7.1	0.071
L370751-29	100	<5.0	<0.050
L370751-31	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<5.0	<0.050
L370751-35	100	<5.0	<0.050
L370751-37	100	<5.0	<0.050
L370751-39	100	<5.0	<0.050
L370751-41	100	<5.0	<0.050
L370751-43	100	39	0.39
L370751-45	100	<5.0	<0.050
L370751-47	100	<5.0	<0.050
L370751-49	100	6.2	0.062
L370751-51	100	<5.0	<0.050
L370751-53	100	<5.0	<0.050
L370751-55	100	<5.0	<0.050
L370751-58	100	<5.0	<0.050
L370751-60	100	<5.0	<0.050
L370751-62	100	<5.0	<0.050
L370751-63	NA	<5.0	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<5.0	<0.050
L370751-68	NA	<5.0	NA
L370751-70	100	<5.0	<0.050
L370751-72	100	<5.0	<0.050
L370751-74	100	<5.0	<0.050
L370751-76	100	<5.0	<0.050
L370751-78	100	<5.0	<0.050
L370751-80	100	<5.0	<0.050
L370751-82	100	<5.0	<0.050
L370751-84	100	<5.0	<0.050
L370751-86	100	<5.0	<0.050
L370751-88	100	<5.0	<0.050
L370751-90	NA	<5.0	NA
L370751-92	100	<5.0	<0.050
L370751-94	100	<5.0	<0.050
L370751-96	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	5.8	0.058
L370751-100	100	<5.0	<0.050
L370751-101	100	<5.0	<0.050
L370751-103	100	<5.0	<0.050
L370751-105	100	<5.0	<0.050
L370751-109	100	65	0.65
L370751-110	100	61	0.61
L370751-112	100	11	0.11
L370751-114	100	<5.0	<0.050
L370751-116	100	<5.0	<0.050
L370751-118	NA	<5.0	NA
L370751-120	100	<5.0	<0.050
L370751-122	NA	<5.0	NA
L370751-124	100	<5.0	<0.050
L370751-126	100	<5.0	<0.050
L370751-127	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<5.0	<0.050
L370751-132	NA	<5.0	NA
L370751-137	100	<5.0	<0.050
L370751-138	100	<5.0	<0.050
L370751-139	100	<5.0	<0.050
L370751-141	100	<5.0	<0.050
L370751-143	100	<5.0	<0.050
L370751-144	NA	<5.0	NA
L370751-146	100	<5.0	<0.050
L370751-147	100	7.8	0.078
L370751-148	100	<5.0	<0.050
L370751-149	NA	<5.0	NA
L370751-150	100	<5.0	<0.050
L370751-156	100	<5.0	<0.050
L370751-158	100	<5.0	<0.050
L370751-160	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<5.0	NA
L370751-164	100	<5.0	<0.050
L370751-166	100	<5.0	<0.050
L370751-168	100	<5.0	<0.050
L370751-170	100	22	0.22
L370751-172	100	<5.0	<0.050
L370751-174	100	<5.0	<0.050
L370751-176	100	<5.0	<0.050
L370751-180	100	<5.0	<0.050
L370751-181	100	<5.0	<0.050
L370751-182	NA	<5.0	NA
L370751-183	100	<5.0	<0.050
L370751-185	100	<5.0	<0.050
L370751-187	100	<5.0	<0.050
L370751-190	100	<5.0	<0.050
L370751-192	100	5.4	0.054

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929084

Manganese

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<5.0	<0.050
L370751-202	100	<5.0	<0.050
L370751-203	100	<5.0	<0.050
L370751-204	100	<5.0	<0.050
L370751-205	100	23	0.23
L370751-206	100	<5.0	<0.050
L370751-207	100	<5.0	<0.050
L370751-208	100	<5.0	<0.050
L370751-210	100	<5.0	<0.050
L370751-212	100	<5.0	<0.050
L370751-214	100	<5.0	<0.050
L370751-216	NA	<5.0	NA
L370751-218	100	<5.0	<0.050
L370751-220	100	31	0.31

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<2.5	<0.025
L370751-4	100	<2.5	<0.025
L370751-6	100	<2.5	<0.025
L370751-8	100	<2.5	<0.025
L370751-9	100	<2.5	<0.025
L370751-14	100	<2.5	<0.025
L370751-15	100	<2.5	<0.025
L370751-16	NA	<2.5	NA
L370751-18	100	<2.5	<0.025
L370751-20	100	<2.5	<0.025
L370751-22	100	<2.5	<0.025
L370751-23	NA	<2.5	NA
L370751-25	100	<2.5	<0.025
L370751-27	100	<2.5	<0.025
L370751-29	100	<2.5	<0.025
L370751-31	100	<2.5	<0.025

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<2.5	<0.025
L370751-35	100	<2.5	<0.025
L370751-37	100	<2.5	<0.025
L370751-39	100	<2.5	<0.025
L370751-41	100	<2.5	<0.025
L370751-43	100	<2.5	<0.025
L370751-45	100	<2.5	<0.025
L370751-47	100	<2.5	<0.025
L370751-49	100	<2.5	<0.025
L370751-51	100	<2.5	<0.025
L370751-53	100	<2.5	<0.025
L370751-55	100	<2.5	<0.025
L370751-58	100	<2.5	<0.025
L370751-60	100	<2.5	<0.025
L370751-62	100	<2.5	<0.025
L370751-63	NA	<2.5	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<2.5	<0.025
L370751-68	NA	<2.5	NA
L370751-70	100	<2.5	<0.025
L370751-72	100	<2.5	<0.025
L370751-74	100	<2.5	<0.025
L370751-76	100	<2.5	<0.025
L370751-78	100	<2.5	<0.025
L370751-80	100	<2.5	<0.025
L370751-82	100	<2.5	<0.025
L370751-84	100	<2.5	<0.025
L370751-86	100	<2.5	<0.025
L370751-88	100	<2.5	<0.025
L370751-90	NA	<2.5	NA
L370751-92	100	<2.5	<0.025
L370751-94	100	<2.5	<0.025
L370751-96	100	<2.5	<0.025

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<2.5	<0.025
L370751-100	100	<2.5	<0.025
L370751-101	100	<2.5	<0.025
L370751-103	100	<2.5	<0.025
L370751-105	100	<2.5	<0.025
L370751-109	100	<2.5	<0.025
L370751-110	100	<2.5	<0.025
L370751-112	100	<2.5	<0.025
L370751-114	100	<2.5	<0.025
L370751-116	100	<2.5	<0.025
L370751-118	NA	<2.5	NA
L370751-120	100	<2.5	<0.025
L370751-122	NA	<2.5	NA
L370751-124	100	<2.5	<0.025
L370751-126	100	<2.5	<0.025
L370751-127	100	<2.5	<0.025

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<2.5	<0.025
L370751-132	NA	<2.5	NA
L370751-137	100	<2.5	<0.025
L370751-138	100	<2.5	<0.025
L370751-139	100	<2.5	<0.025
L370751-141	100	<2.5	<0.025
L370751-143	100	<2.5	<0.025
L370751-144	NA	<2.5	NA
L370751-146	100	<2.5	<0.025
L370751-147	100	<2.5	<0.025
L370751-148	100	<2.5	<0.025
L370751-149	NA	<2.5	NA
L370751-150	100	<2.5	<0.025
L370751-156	100	<2.5	<0.025
L370751-158	100	<2.5	<0.025
L370751-160	100	<2.5	<0.025

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<2.5	NA
L370751-164	100	<2.5	<0.025
L370751-166	100	<2.5	<0.025
L370751-168	100	<2.5	<0.025
L370751-170	100	<2.5	<0.025
L370751-172	100	<2.5	<0.025
L370751-174	100	<2.5	<0.025
L370751-176	100	<2.5	<0.025
L370751-180	100	<2.5	<0.025
L370751-181	100	<2.5	<0.025
L370751-182	NA	<2.5	NA
L370751-183	100	<2.5	<0.025
L370751-185	100	<2.5	<0.025
L370751-187	100	<2.5	<0.025
L370751-190	100	<2.5	<0.025
L370751-192	100	<2.5	<0.025

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929085

Molybdenum

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-194	100	<2.5	<0.025
	L370751-202	100	<2.5	<0.025
	L370751-203	100	<2.5	<0.025
	L370751-204	100	<2.5	<0.025
	L370751-205	100	<2.5	<0.025
	L370751-206	100	<2.5	<0.025
	L370751-207	100	<2.5	<0.025
	L370751-208	100	<2.5	<0.025
	L370751-210	100	<2.5	<0.025
	L370751-212	100	<2.5	<0.025
	L370751-214	100	<2.5	<0.025
	L370751-216	NA	<2.5	NA
	L370751-218	100	<2.5	<0.025
	L370751-220	100	<2.5	<0.025

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 2.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<1.5	<0.015
L370751-4	100	<1.5	<0.015
L370751-6	100	<1.5	<0.015
L370751-8	100	<1.5	<0.015
L370751-9	100	<1.5	<0.015
L370751-14	100	1.8	0.018
L370751-15	100	<1.5	<0.015
L370751-16	NA	<1.5	NA
L370751-18	100	<1.5	<0.015
L370751-20	100	<1.5	<0.015
L370751-22	100	<1.5	<0.015
L370751-23	NA	<1.5	NA
L370751-25	100	<1.5	<0.015
L370751-27	100	<1.5	<0.015
L370751-29	100	<1.5	<0.015
L370751-31	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<1.5	<0.015
L370751-35	100	<1.5	<0.015
L370751-37	100	<1.5	<0.015
L370751-39	100	<1.5	<0.015
L370751-41	100	<1.5	<0.015
L370751-43	100	11	0.11
L370751-45	100	<1.5	<0.015
L370751-47	100	<1.5	<0.015
L370751-49	100	<1.5	<0.015
L370751-51	100	<1.5	<0.015
L370751-53	100	<1.5	<0.015
L370751-55	100	<1.5	<0.015
L370751-58	100	<1.5	<0.015
L370751-60	100	<1.5	<0.015
L370751-62	100	<1.5	<0.015
L370751-63	NA	<1.5	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<1.5	<0.015
L370751-68	NA	<1.5	NA
L370751-70	100	<1.5	<0.015
L370751-72	100	<1.5	<0.015
L370751-74	100	<1.5	<0.015
L370751-76	100	<1.5	<0.015
L370751-78	100	<1.5	<0.015
L370751-80	100	<1.5	<0.015
L370751-82	100	<1.5	<0.015
L370751-84	100	<1.5	<0.015
L370751-86	100	<1.5	<0.015
L370751-88	100	<1.5	<0.015
L370751-90	NA	<1.5	NA
L370751-92	100	<1.5	<0.015
L370751-94	100	<1.5	<0.015
L370751-96	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287.048
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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<1.5	<0.015
L370751-100	100	<1.5	<0.015
L370751-101	100	<1.5	<0.015
L370751-103	100	<1.5	<0.015
L370751-105	100	<1.5	<0.015
L370751-109	100	4.1	0.041
L370751-110	100	3.3	0.033
L370751-112	100	<1.5	<0.015
L370751-114	100	<1.5	<0.015
L370751-116	100	<1.5	<0.015
L370751-118	NA	<1.5	NA
L370751-120	100	<1.5	<0.015
L370751-122	NA	<1.5	NA
L370751-124	100	<1.5	<0.015
L370751-126	100	<1.5	<0.015
L370751-127	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<1.5	<0.015
L370751-132	NA	<1.5	NA
L370751-137	100	<1.5	<0.015
L370751-138	100	<1.5	<0.015
L370751-139	100	<1.5	<0.015
L370751-141	100	<1.5	<0.015
L370751-143	100	<1.5	<0.015
L370751-144	NA	<1.5	NA
L370751-146	100	<1.5	<0.015
L370751-147	100	1.8	0.018
L370751-148	100	<1.5	<0.015
L370751-149	NA	<1.5	NA
L370751-150	100	<1.5	<0.015
L370751-156	100	<1.5	<0.015
L370751-158	100	<1.5	<0.015
L370751-160	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<1.5	NA
L370751-164	100	<1.5	<0.015
L370751-166	100	<1.5	<0.015
L370751-168	100	<1.5	<0.015
L370751-170	100	1.9	0.019
L370751-172	100	<1.5	<0.015
L370751-174	100	<1.5	<0.015
L370751-176	100	<1.5	<0.015
L370751-180	100	<1.5	<0.015
L370751-181	100	<1.5	<0.015
L370751-182	NA	<1.5	NA
L370751-183	100	<1.5	<0.015
L370751-185	100	<1.5	<0.015
L370751-187	100	<1.5	<0.015
L370751-190	100	<1.5	<0.015
L370751-192	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929086

Nickel

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<1.5	<0.015
L370751-202	100	<1.5	<0.015
L370751-203	100	<1.5	<0.015
L370751-204	100	<1.5	<0.015
L370751-205	100	<1.5	<0.015
L370751-206	100	<1.5	<0.015
L370751-207	100	<1.5	<0.015
L370751-208	100	<1.5	<0.015
L370751-210	100	<1.5	<0.015
L370751-212	100	<1.5	<0.015
L370751-214	100	<1.5	<0.015
L370751-216	NA	<1.5	NA
L370751-218	100	<1.5	<0.015
L370751-220	100	1.7	0.017

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929087

Lead

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<10	<0.10
L370751-4	100	<10	<0.10
L370751-6	100	<10	<0.10
L370751-8	100	<10	<0.10
L370751-9	100	<10	<0.10
L370751-14	100	<10	<0.10
L370751-15	100	<10	<0.10
L370751-16	NA	<10	NA
L370751-18	100	<10	<0.10
L370751-20	100	<10	<0.10
L370751-22	100	<10	<0.10
L370751-23	NA	<10	NA
L370751-25	100	<10	<0.10
L370751-27	100	<10	<0.10
L370751-29	100	<10	<0.10
L370751-31	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

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FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929087

Lead

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<10	<0.10
L370751-35	100	<10	<0.10
L370751-37	100	<10	<0.10
L370751-39	100	<10	<0.10
L370751-41	100	<10	<0.10
L370751-43	100	<10	<0.10
L370751-45	100	<10	<0.10
L370751-47	100	<10	<0.10
L370751-49	100	<10	<0.10
L370751-51	100	<10	<0.10
L370751-53	100	<10	<0.10
L370751-55	100	<10	<0.10
L370751-58	100	<10	<0.10
L370751-60	100	<10	<0.10
L370751-62	100	<10	<0.10
L370751-63	NA	<10	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Lead

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<10	<0.10
L370751-68	NA	<10	NA
L370751-70	100	<10	<0.10
L370751-72	100	<10	<0.10
L370751-74	100	<10	<0.10
L370751-76	100	<10	<0.10
L370751-78	100	<10	<0.10
L370751-80	100	<10	<0.10
L370751-82	100	<10	<0.10
L370751-84	100	<10	<0.10
L370751-86	100	<10	<0.10
L370751-88	100	<10	<0.10
L370751-90	NA	<10	NA
L370751-92	100	<10	<0.10
L370751-94	100	<10	<0.10
L370751-96	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

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Report ID : 929087

Lead

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<10	<0.10
L370751-100	100	<10	<0.10
L370751-101	100	<10	<0.10
L370751-103	100	<10	<0.10
L370751-105	100	<10	<0.10
L370751-109	100	<10	<0.10
L370751-110	100	<10	<0.10
L370751-112	100	<10	<0.10
L370751-114	100	<10	<0.10
L370751-116	100	<10	<0.10
L370751-118	NA	<10	NA
L370751-120	100	<10	<0.10
L370751-122	NA	<10	NA
L370751-124	100	<10	<0.10
L370751-126	100	<10	<0.10
L370751-127	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Lead

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<10	<0.10
L370751-132	NA	<10	NA
L370751-137	100	<10	<0.10
L370751-138	100	<10	<0.10
L370751-139	100	<10	<0.10
L370751-141	100	<10	<0.10
L370751-143	100	<10	<0.10
L370751-144	NA	<10	NA
L370751-146	100	<10	<0.10
L370751-147	100	<10	<0.10
L370751-148	100	<10	<0.10
L370751-149	NA	<10	NA
L370751-150	100	<10	<0.10
L370751-156	100	<10	<0.10
L370751-158	100	<10	<0.10
L370751-160	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929087

Lead

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<10	NA
L370751-164	100	<10	<0.10
L370751-166	100	<10	<0.10
L370751-168	100	<10	<0.10
L370751-170	100	<10	<0.10
L370751-172	100	<10	<0.10
L370751-174	100	<10	<0.10
L370751-176	100	<10	<0.10
L370751-180	100	<10	<0.10
L370751-181	100	<10	<0.10
L370751-182	NA	<10	NA
L370751-183	100	<10	<0.10
L370751-185	100	<10	<0.10
L370751-187	100	<10	<0.10
L370751-190	100	<10	<0.10
L370751-192	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929087

Lead

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<10	<0.10
L370751-202	100	<10	<0.10
L370751-203	100	<10	<0.10
L370751-204	100	<10	<0.10
L370751-205	100	<10	<0.10
L370751-206	100	<10	<0.10
L370751-207	100	<10	<0.10
L370751-208	100	<10	<0.10
L370751-210	100	<10	<0.10
L370751-212	100	<10	<0.10
L370751-214	100	<10	<0.10
L370751-216	NA	<10	NA
L370751-218	100	<10	<0.10
L370751-220	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR/GJM
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929088

Antimony

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<10	<0.10
L370751-4	100	<10	<0.10
L370751-6	100	<10	<0.10
L370751-8	100	<10	<0.10
L370751-9	100	<10	<0.10
L370751-14	100	<10	<0.10
L370751-15	100	<10	<0.10
L370751-16	NA	<10	NA
L370751-18	100	<10	<0.10
L370751-20	100	<10	<0.10
L370751-22	100	<10	<0.10
L370751-23	NA	<10	NA
L370751-25	100	<10	<0.10
L370751-27	100	<10	<0.10
L370751-29	100	<10	<0.10
L370751-31	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929088

Antimony

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<10	<0.10
L370751-35	100	<10	<0.10
L370751-37	100	<10	<0.10
L370751-39	100	<10	<0.10
L370751-41	100	<10	<0.10
L370751-43	100	27	0.27
L370751-45	100	<10	<0.10
L370751-47	100	<10	<0.10
L370751-49	100	<10	<0.10
L370751-51	100	<10	<0.10
L370751-53	100	<10	<0.10
L370751-55	100	<10	<0.10
L370751-58	100	<10	<0.10
L370751-60	100	<10	<0.10
L370751-62	100	<10	<0.10
L370751-63	NA	<10	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Antimony

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<10	<0.10
L370751-68	NA	<10	NA
L370751-70	100	<10	<0.10
L370751-72	100	<10	<0.10
L370751-74	100	<10	<0.10
L370751-76	100	<10	<0.10
L370751-78	100	<10	<0.10
L370751-80	100	<10	<0.10
L370751-82	100	<10	<0.10
L370751-84	100	<10	<0.10
L370751-86	100	<10	<0.10
L370751-88	100	<10	<0.10
L370751-90	NA	<10	NA
L370751-92	100	<10	<0.10
L370751-94	100	<10	<0.10
L370751-96	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
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Antimony

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<10	<0.10
L370751-100	100	<10	<0.10
L370751-101	100	<10	<0.10
L370751-103	100	<10	<0.10
L370751-105	100	<10	<0.10
L370751-109	100	<10	<0.10
L370751-110	100	<10	<0.10
L370751-112	100	<10	<0.10
L370751-114	100	<10	<0.10
L370751-116	100	<10	<0.10
L370751-118	NA	<10	NA
L370751-120	100	<10	<0.10
L370751-122	NA	<10	NA
L370751-124	100	<10	<0.10
L370751-126	100	<10	<0.10
L370751-127	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
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Supervisor: KEG

NYS DOH # : 11626
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Antimony

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<10	<0.10
L370751-132	NA	<10	NA
L370751-137	100	<10	<0.10
L370751-138	100	<10	<0.10
L370751-139	100	<10	<0.10
L370751-141	100	<10	<0.10
L370751-143	100	<10	<0.10
L370751-144	NA	<10	NA
L370751-146	100	<10	<0.10
L370751-147	100	<10	<0.10
L370751-148	100	<10	<0.10
L370751-149	NA	<10	NA
L370751-150	100	<10	<0.10
L370751-156	100	<10	<0.10
L370751-158	100	<10	<0.10
L370751-160	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
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Supervisor: KEG

NYS DOH # : 11626
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Antimony

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<10	NA
L370751-164	100	<10	<0.10
L370751-166	100	<10	<0.10
L370751-168	100	180	1.8
L370751-170	100	<10	<0.10
L370751-172	100	<10	<0.10
L370751-174	100	<10	<0.10
L370751-176	100	<10	<0.10
L370751-180	100	<10	<0.10
L370751-181	100	<10	<0.10
L370751-182	NA	<10	NA
L370751-183	100	<10	<0.10
L370751-185	100	<10	<0.10
L370751-187	100	<10	<0.10
L370751-190	100	<10	<0.10
L370751-192	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<10	<0.10
L370751-202	100	<10	<0.10
L370751-203	100	<10	<0.10
L370751-204	100	<10	<0.10
L370751-205	100	12	0.12
L370751-206	100	<10	<0.10
L370751-207	100	<10	<0.10
L370751-208	100	<10	<0.10
L370751-210	100	<10	<0.10
L370751-212	100	<10	<0.10
L370751-214	100	<10	<0.10
L370751-216	NA	<10	NA
L370751-218	100	<10	<0.10
L370751-220	100	<10	<0.10

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<5.0	<0.050
L370751-4	100	<5.0	<0.050
L370751-6	100	<5.0	<0.050
L370751-8	100	<5.0	<0.050
L370751-9	100	<5.0	<0.050
L370751-14	100	5.5	0.055
L370751-15	100	<5.0	<0.050
L370751-16	NA	<5.0	NA
L370751-18	100	<5.0	<0.050
L370751-20	100	<5.0	<0.050
L370751-22	100	<5.0	<0.050
L370751-23	NA	<5.0	NA
L370751-25	100	<5.0	<0.050
L370751-27	100	<5.0	<0.050
L370751-29	100	<5.0	<0.050
L370751-31	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Site : Aliso Canyon
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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-32	100	<5.0	<0.050
L370751-35	100	<5.0	<0.050
L370751-37	100	<5.0	<0.050
L370751-39	100	<5.0	<0.050
L370751-41	100	<5.0	<0.050
L370751-43	100	13	0.13
L370751-45	100	<5.0	<0.050
L370751-47	100	<5.0	<0.050
L370751-49	100	<5.0	<0.050
L370751-51	100	<5.0	<0.050
L370751-53	100	<5.0	<0.050
L370751-55	100	<5.0	<0.050
L370751-58	100	<5.0	<0.050
L370751-60	100	<5.0	<0.050
L370751-62	100	<5.0	<0.050
L370751-63	NA	<5.0	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-66	100	<5.0	<0.050
	L370751-68	NA	<5.0	NA
	L370751-70	100	<5.0	<0.050
	L370751-72	100	<5.0	<0.050
	L370751-74	100	<5.0	<0.050
	L370751-76	100	<5.0	<0.050
	L370751-78	100	<5.0	<0.050
	L370751-80	100	<5.0	<0.050
	L370751-82	100	<5.0	<0.050
	L370751-84	100	<5.0	<0.050
	L370751-86	100	<5.0	<0.050
	L370751-88	100	<5.0	<0.050
	L370751-90	NA	<5.0	NA
	L370751-92	100	<5.0	<0.050
	L370751-94	100	<5.0	<0.050
	L370751-96	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<5.0	<0.050
L370751-100	100	<5.0	<0.050
L370751-101	100	<5.0	<0.050
L370751-103	100	<5.0	<0.050
L370751-105	100	<5.0	<0.050
L370751-109	100	10	0.10
L370751-110	100	8.7	0.087
L370751-112	100	<5.0	<0.050
L370751-114	100	<5.0	<0.050
L370751-116	100	<5.0	<0.050
L370751-118	NA	<5.0	NA
L370751-120	100	<5.0	<0.050
L370751-122	NA	<5.0	NA
L370751-124	100	<5.0	<0.050
L370751-126	100	<5.0	<0.050
L370751-127	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<5.0	<0.050
L370751-132	NA	<5.0	NA
L370751-137	100	<5.0	<0.050
L370751-138	100	<5.0	<0.050
L370751-139	100	<5.0	<0.050
L370751-141	100	<5.0	<0.050
L370751-143	100	<5.0	<0.050
L370751-144	NA	<5.0	NA
L370751-146	100	<5.0	<0.050
L370751-147	100	5.9	0.059
L370751-148	100	<5.0	<0.050
L370751-149	NA	<5.0	NA
L370751-150	100	<5.0	<0.050
L370751-156	100	<5.0	<0.050
L370751-158	100	<5.0	<0.050
L370751-160	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<5.0	NA
L370751-164	100	<5.0	<0.050
L370751-166	100	<5.0	<0.050
L370751-168	100	<5.0	<0.050
L370751-170	100	8.2	0.082
L370751-172	100	<5.0	<0.050
L370751-174	100	<5.0	<0.050
L370751-176	100	<5.0	<0.050
L370751-180	100	<5.0	<0.050
L370751-181	100	<5.0	<0.050
L370751-182	NA	<5.0	NA
L370751-183	100	<5.0	<0.050
L370751-185	100	<5.0	<0.050
L370751-187	100	<5.0	<0.050
L370751-190	100	<5.0	<0.050
L370751-192	100	<5.0	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929089

Strontium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<5.0	<0.050
L370751-202	100	<5.0	<0.050
L370751-203	100	<5.0	<0.050
L370751-204	100	<5.0	<0.050
L370751-205	100	<5.0	<0.050
L370751-206	100	<5.0	<0.050
L370751-207	100	<5.0	<0.050
L370751-208	100	<5.0	<0.050
L370751-210	100	<5.0	<0.050
L370751-212	100	<5.0	<0.050
L370751-214	100	<5.0	<0.050
L370751-216	NA	<5.0	NA
L370751-218	100	<5.0	<0.050
L370751-220	100	7.2	0.072

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5.0 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<50	<0.50
L370751-4	100	<50	<0.50
L370751-6	100	<50	<0.50
L370751-8	100	<50	<0.50
L370751-9	100	<50	<0.50
L370751-14	100	<50	<0.50
L370751-15	100	<50	<0.50
L370751-16	NA	<50	NA
L370751-18	100	<50	<0.50
L370751-20	100	<50	<0.50
L370751-22	100	<50	<0.50
L370751-23	NA	<50	NA
L370751-25	100	<50	<0.50
L370751-27	100	<50	<0.50
L370751-29	100	<50	<0.50
L370751-31	100	<50	<0.50

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-32	100	<50	<0.50
	L370751-35	100	<50	<0.50
	L370751-37	100	<50	<0.50
	L370751-39	100	<50	<0.50
	L370751-41	100	<50	<0.50
	L370751-43	100	<50	<0.50
	L370751-45	100	<50	<0.50
	L370751-47	100	<50	<0.50
	L370751-49	100	<50	<0.50
	L370751-51	100	<50	<0.50
	L370751-53	100	<50	<0.50
	L370751-55	100	<50	<0.50
	L370751-58	100	<50	<0.50
	L370751-60	100	<50	<0.50
	L370751-62	100	<50	<0.50
	L370751-63	NA	<50	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-66	100	<50	<0.50
	L370751-68	NA	<50	NA
	L370751-70	100	<50	<0.50
	L370751-72	100	<50	<0.50
	L370751-74	100	<50	<0.50
	L370751-76	100	<50	<0.50
	L370751-78	100	<50	<0.50
	L370751-80	100	<50	<0.50
	L370751-82	100	<50	<0.50
	L370751-84	100	<50	<0.50
	L370751-86	100	<50	<0.50
	L370751-88	100	<50	<0.50
	L370751-90	NA	<50	NA
	L370751-92	100	<50	<0.50
	L370751-94	100	<50	<0.50
	L370751-96	100	<50	<0.50

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-98	100	<50	<0.50
	L370751-100	100	<50	<0.50
	L370751-101	100	<50	<0.50
	L370751-103	100	<50	<0.50
	L370751-105	100	<50	<0.50
	L370751-109	100	<50	<0.50
	L370751-110	100	<50	<0.50
	L370751-112	100	<50	<0.50
	L370751-114	100	<50	<0.50
	L370751-116	100	<50	<0.50
	L370751-118	NA	<50	NA
	L370751-120	100	<50	<0.50
	L370751-122	NA	<50	NA
	L370751-124	100	<50	<0.50
	L370751-126	100	<50	<0.50
	L370751-127	100	<50	<0.50

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-128	100	<50	<0.50
	L370751-132	NA	<50	NA
	L370751-137	100	<50	<0.50
	L370751-138	100	<50	<0.50
	L370751-139	100	<50	<0.50
	L370751-141	100	<50	<0.50
	L370751-143	100	<50	<0.50
	L370751-144	NA	<50	NA
	L370751-146	100	<50	<0.50
	L370751-147	100	<50	<0.50
	L370751-148	100	<50	<0.50
	L370751-149	NA	<50	NA
	L370751-150	100	<50	<0.50
	L370751-156	100	<50	<0.50
	L370751-158	100	<50	<0.50
	L370751-160	100	<50	<0.50

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
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Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<50	NA
L370751-164	100	<50	<0.50
L370751-166	100	<50	<0.50
L370751-168	100	<50	<0.50
L370751-170	100	<50	<0.50
L370751-172	100	<50	<0.50
L370751-174	100	<50	<0.50
L370751-176	100	<50	<0.50
L370751-180	100	<50	<0.50
L370751-181	100	<50	<0.50
L370751-182	NA	<50	NA
L370751-183	100	<50	<0.50
L370751-185	100	<50	<0.50
L370751-187	100	<50	<0.50
L370751-190	100	<50	<0.50
L370751-192	100	<50	<0.50

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

6601 Kirkville Road
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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929090

Thallium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<50	<0.50
L370751-202	100	<50	<0.50
L370751-203	100	<50	<0.50
L370751-204	100	<50	<0.50
L370751-205	100	<50	<0.50
L370751-206	100	<50	<0.50
L370751-207	100	<50	<0.50
L370751-208	100	<50	<0.50
L370751-210	100	<50	<0.50
L370751-212	100	<50	<0.50
L370751-214	100	<50	<0.50
L370751-216	NA	<50	NA
L370751-218	100	<50	<0.50
L370751-220	100	<50	<0.50

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 50. ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-2	100	<1.5	<0.015
L370751-4	100	<1.5	<0.015
L370751-6	100	<1.5	<0.015
L370751-8	100	<1.5	<0.015
L370751-9	100	<1.5	<0.015
L370751-14	100	<1.5	<0.015
L370751-15	100	<1.5	<0.015
L370751-16	NA	<1.5	NA
L370751-18	100	<1.5	<0.015
L370751-20	100	<1.5	<0.015
L370751-22	100	<1.5	<0.015
L370751-23	NA	<1.5	NA
L370751-25	100	<1.5	<0.015
L370751-27	100	<1.5	<0.015
L370751-29	100	<1.5	<0.015
L370751-31	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

[redacted]	Lab ID	Area cm2	Total ug	Conc ug/cm2
	L370751-32	100	<1.5	<0.015
	L370751-35	100	<1.5	<0.015
	L370751-37	100	<1.5	<0.015
	L370751-39	100	<1.5	<0.015
	L370751-41	100	<1.5	<0.015
	L370751-43	100	5.5	0.055
	L370751-45	100	<1.5	<0.015
	L370751-47	100	<1.5	<0.015
	L370751-49	100	<1.5	<0.015
	L370751-51	100	<1.5	<0.015
	L370751-53	100	<1.5	<0.015
	L370751-55	100	<1.5	<0.015
	L370751-58	100	<1.5	<0.015
	L370751-60	100	<1.5	<0.015
	L370751-62	100	<1.5	<0.015
	L370751-63	NA	<1.5	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-66	100	<1.5	<0.015
L370751-68	NA	<1.5	NA
L370751-70	100	<1.5	<0.015
L370751-72	100	<1.5	<0.015
L370751-74	100	<1.5	<0.015
L370751-76	100	<1.5	<0.015
L370751-78	100	<1.5	<0.015
L370751-80	100	<1.5	<0.015
L370751-82	100	<1.5	<0.015
L370751-84	100	<1.5	<0.015
L370751-86	100	<1.5	<0.015
L370751-88	100	<1.5	<0.015
L370751-90	NA	<1.5	NA
L370751-92	100	<1.5	<0.015
L370751-94	100	<1.5	<0.015
L370751-96	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
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Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-98	100	<1.5	<0.015
L370751-100	100	<1.5	<0.015
L370751-101	100	<1.5	<0.015
L370751-103	100	<1.5	<0.015
L370751-105	100	<1.5	<0.015
L370751-109	100	7.4	0.074
L370751-110	100	6.9	0.069
L370751-112	100	<1.5	<0.015
L370751-114	100	<1.5	<0.015
L370751-116	100	<1.5	<0.015
L370751-118	NA	<1.5	NA
L370751-120	100	<1.5	<0.015
L370751-122	NA	<1.5	NA
L370751-124	100	<1.5	<0.015
L370751-126	100	<1.5	<0.015
L370751-127	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-128	100	<1.5	<0.015
L370751-132	NA	<1.5	NA
L370751-137	100	<1.5	<0.015
L370751-138	100	<1.5	<0.015
L370751-139	100	<1.5	<0.015
L370751-141	100	<1.5	<0.015
L370751-143	100	<1.5	<0.015
L370751-144	NA	<1.5	NA
L370751-146	100	<1.5	<0.015
L370751-147	100	<1.5	<0.015
L370751-148	100	<1.5	<0.015
L370751-149	NA	<1.5	NA
L370751-150	100	<1.5	<0.015
L370751-156	100	<1.5	<0.015
L370751-158	100	<1.5	<0.015
L370751-160	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
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Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-162	NA	<1.5	NA
L370751-164	100	<1.5	<0.015
L370751-166	100	<1.5	<0.015
L370751-168	100	<1.5	<0.015
L370751-170	100	2.4	0.024
L370751-172	100	<1.5	<0.015
L370751-174	100	<1.5	<0.015
L370751-176	100	<1.5	<0.015
L370751-180	100	<1.5	<0.015
L370751-181	100	<1.5	<0.015
L370751-182	NA	<1.5	NA
L370751-183	100	<1.5	<0.015
L370751-185	100	<1.5	<0.015
L370751-187	100	<1.5	<0.015
L370751-190	100	<1.5	<0.015
L370751-192	100	<1.5	<0.015

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929091

Vanadium

[redacted]

Lab ID	Area cm2	Total ug	Conc ug/cm2
L370751-194	100	<1.5	<0.015
L370751-202	100	<1.5	<0.015
L370751-203	100	<1.5	<0.015
L370751-204	100	<1.5	<0.015
L370751-205	100	2.4	0.024
L370751-206	100	<1.5	<0.015
L370751-207	100	<1.5	<0.015
L370751-208	100	<1.5	<0.015
L370751-210	100	<1.5	<0.015
L370751-212	100	<1.5	<0.015
L370751-214	100	<1.5	<0.015
L370751-216	NA	<1.5	NA
L370751-218	100	<1.5	<0.015
L370751-220	100	3.3	0.033

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 1.5 ug
Analytical Method : mod. SW846 3051A/3050B/6010C/NIOSH9102 ICP GH
OSHA PEL : NA
Collection Media : Ghost

Submitted by: JMR
Approved by : mlh
Date : 29-MAR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-1	100	<40	<40	<0.40
L370751-3	100	<40	<40	<0.40
L370751-5	100	<40	<40	<0.40
L370751-7	100	<40	<40	<0.40
L370751-10	100	<40	<40	<0.40
L370751-11	100	<40	<40	<0.40
L370751-12	100	62	62	0.62
L370751-13	NA	<40	<40	NA
L370751-17	100	<40	<40	<0.40
L370751-19	100	<40	<40	<0.40
L370751-21	100	<40	<40	<0.40
L370751-24	100	<40	<40	<0.40
L370751-26	100	<40	<40	<0.40
L370751-28	100	<40	<40	<0.40
L370751-30	100	<40	<40	<0.40
L370751-33	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-34	100	<40	<40	<0.40
L370751-36	100	<40	<40	<0.40
L370751-38	100	<40	<40	<0.40
L370751-40	100	<40	<40	<0.40
L370751-42	100	<40	<40	<0.40
L370751-44	100	<40	<40	<0.40
L370751-46	100	<40	<40	<0.40
L370751-48	100	<40	<40	<0.40
L370751-50	100	<40	<40	<0.40
L370751-52	100	<40	<40	<0.40
L370751-54	100	<40	<40	<0.40
L370751-56	100	<40	<40	<0.40
L370751-57	100	<40	<40	<0.40
L370751-59	100	<40	<40	<0.40
L370751-61	100	<40	<40	<0.40
L370751-64	NA	<40	<40	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-65	100	<40	<40	<0.40
L370751-67	NA	<40	<40	NA
L370751-69	100	<40	<40	<0.40
L370751-71	100	<40	<40	<0.40
L370751-73	100	<40	<40	<0.40
L370751-75	100	<40	<40	<0.40
L370751-77	100	<40	<40	<0.40
L370751-79	100	<40	<40	<0.40
L370751-81	100	<40	<40	<0.40
L370751-83	100	<40	<40	<0.40
L370751-85	100	<40	<40	<0.40
L370751-87	100	<40	<40	<0.40
L370751-89	NA	<40	<40	NA
L370751-91	100	<40	<40	<0.40
L370751-93	100	<40	<40	<0.40
L370751-95	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-97	100	<40	<40	<0.40
L370751-99	100	<40	<40	<0.40
L370751-102	100	<40	<40	<0.40
L370751-104	100	<40	<40	<0.40
L370751-106	100	<40	<40	<0.40
L370751-107	100	<40	<40	<0.40
L370751-108	100	<40	<40	<0.40
L370751-111	100	<40	<40	<0.40
L370751-113	100	<40	<40	<0.40
L370751-115	100	<40	<40	<0.40
L370751-117	NA	<40	<40	NA
L370751-119	100	<40	<40	<0.40
L370751-121	NA	<40	<40	NA
L370751-123	100	<40	<40	<0.40
L370751-125	100	<40	<40	<0.40
L370751-129	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-130	100	<40	<40	<0.40
L370751-131	NA	<40	<40	NA
L370751-133	100	<40	<40	<0.40
L370751-134	NA	<40	<40	NA
L370751-135	100	<40	<40	<0.40
L370751-136	100	<40	<40	<0.40
L370751-140	100	<40	<40	<0.40
L370751-142	100	<40	<40	<0.40
L370751-145	100	<40	<40	<0.40
L370751-151	100	56	56	0.56
L370751-152	100	<40	<40	<0.40
L370751-153	100	<40	<40	<0.40
L370751-154	NA	<40	<40	NA
L370751-155	100	<40	<40	<0.40
L370751-157	100	<40	<40	<0.40
L370751-159	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-161	NA	<40	<40	NA
L370751-163	100	<40	<40	<0.40
L370751-165	100	<40	<40	<0.40
L370751-167	100	<40	<40	<0.40
L370751-169	100	<40	<40	<0.40
L370751-171	100	<40	<40	<0.40
L370751-173	100	<40	<40	<0.40
L370751-175	100	<40	<40	<0.40
L370751-177	100	<40	<40	<0.40
L370751-178	100	<40	<40	<0.40
L370751-179	100	<40	<40	<0.40
L370751-184	100	<40	<40	<0.40
L370751-186	100	<40	<40	<0.40
L370751-188	NA	<40	<40	NA
L370751-189	100	<40	<40	<0.40
L370751-191	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929066

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-193	100	<40	<40	<0.40
L370751-195	100	46	46	0.46
L370751-196	100	<40	<40	<0.40
L370751-197	100	<40	<40	<0.40
L370751-198	100	<40	<40	<0.40
L370751-199	100	<40	<40	<0.40
L370751-200	100	<40	<40	<0.40
L370751-201	100	<40	<40	<0.40
L370751-209	100	<40	<40	<0.40
L370751-211	100	<40	<40	<0.40
L370751-213	100	<40	<40	<0.40
L370751-215	NA	<40	<40	NA
L370751-217	100	<40	<40	<0.40
L370751-219	NA	<40	<40	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 25-MAR-16
Date Received : 28-MAR-16

Account No.: 30549
Login No. : L370751

Date Analyzed : 28-MAR-16 - 29-MAR-16
Report ID : 929156

Isopropyl Alcohol

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370751-12	100	77	78	0.78
L370751-195	100	27	28	0.28

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5 ug
Analytical Method : mod. NIOSH 1400; GC/FID BADGE
OSHA PEL : 400 ppm (TWA)
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 29-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L370751 (Report ID: 929075):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929075):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-13.3%	100%

L370751 (Report ID: 929076):
Reported results reflect elemental analysis of the requested metals. Certain

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929076):
compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929076):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Barium	+/-13.3%	100%

L370751 (Report ID: 929077):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929077):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Beryllium	+/-13.3%	100%

L370751 (Report ID: 929078):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929078):
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929078):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Cadmium	+/-7.8%	103%

L370751 (Report ID: 929079):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929079):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Cobalt	+/-13.3%	100%

L370751 (Report ID: 929080):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929080):
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929080):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Chromium	+/-13.3%	100%

L370751 (Report ID: 929081):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929081):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Copper	+/-13.3%	100%

L370751 (Report ID: 929082):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929082):
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929082):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Iron	+/-13.3%	100%

L370751 (Report ID: 929084):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929084):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Manganese	+/-13.3%	100%

L370751 (Report ID: 929085):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Molybdenum	+/-13.3%	100%

L370751 (Report ID: 929086):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929086):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Nickel	+/-13.3%	100%

L370751 (Report ID: 929087):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)

L370751-39,41,43,45,47,49,51,53,55,58,60,62-63,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100-101,103,105,109-110,112,114,116,118 (Report ID: 929087):
One out of two Laboratory Control Samples recovered above AIHA control limits (80 to 120%) but recovered within in-house
statistical limits (70.5-128%) at 126% for lead for the reference standard used. Sample data is not affected.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929087):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Lead	+/-26.2%	101%

L370751 (Report ID: 929088):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929088):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Antimony	+/-13.3%	100%

L370751 (Report ID: 929089):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929089):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Strontium	+/-13.3%	100%

L370751 (Report ID: 929090):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370751 (Report ID: 929090):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Thallium	+/-13.3%	100%

L370751 (Report ID: 929091):
Reported results reflect elemental analysis of the requested metals. Certain
compounds may not be solubilized during digestion, resulting in data that is
biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929091):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Vanadium	+/-13.3%	100%

L370751 (Report ID: 929066):
Total ug corrected for a desorption efficiency of 100%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The total VOC analysis should be used for screening purposes only. All values are estimated
based on the response of n-Hexane. Please contact client services in regards to reporting the sample(s) for the
tentatively identified compounds. For the sample(s) that are non-detect no tentative identifications will be provided.
The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not
received in glass containers but were received in plastic. We are unable to prepare the samples in the container they
were received in. Effect on the results is unknown.

L370751-12,151,195 (Report ID: 929066):
Tentative Identification includes: Unknown volatile organic compounds.

L370751 (Report ID: 929066):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Total Hydrocarbons	+/-16.7%	100%

L370751 (Report ID: 929156):
Total ug corrected for a desorption efficiency of 98%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 25-MAR-16
Date Received: 28-MAR-16
Date Analyzed: 28-MAR-16 - 29-MAR-16

Account No.: 30549
Login No. : L370751

L370751 (Report ID: 929156):
The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.

L370751 (Report ID: 929156):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Isopropyl Alcohol	+/-10.1%	95.9%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

L370757

Page 1 of 1

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

116

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	Sampler Name: RC/kaji
	Client: Los Angeles County	Date: 3/25/2016
	Project Location: Aliso Canyon	

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
107-CD	4cm x 25cm = 100cm²	Carbon disk	Bedroom/Office NNW window window sill painted wood	NIOSH 1500/1501
107-GH	↓	Ghost Wipe	Bedroom/Office NNW window window sill painted wood	NIOSH 7300
57-CD	100cm²	Carbon disk	N. side Master bedroom window sill painted wood	NIOSH 1500/1501
57-GH	↓	Ghost wipe	N. Side Master Bedroom window sill painted wood	NIOSH 7300
66-CD	100cm²	Carbon disk	N side pink bedroom window sill painted wood	NIOSH 1500/1501
66-GH	↓	Ghost Wipe	N. Side pink bedroom window sill painted wood	NIOSH 7300
76-CD	100cm²	Carbon Disk	N Hall bathroom window shutters faux wood	NIOSH 1500/1501
76-GH	↓	Ghost wipe	N Hall bathroom window shutters faux wood	NIOSH 7300
84-GH	100cm²	Ghost wipe	N Kitchen window - wood shutter	NIOSH 7300
84-CD	↓	Carbon Disk	N Kitchen window - Wood shutter	NIOSH 1500/1501
10 wipes 84-GH 10-CD				

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300
Al, Sb, Ba, Ca, Co, Cu, Cr, Co, Cu, Fe, Pb, Mo, Ni, Os, Sb, Sr, Tl, V. 00 3/28/16
Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501 + to acids 00 3/28/16

Relinquished by: Kathy Jones	Date: 3/25/16	Time: 1645	Received by: Zach King	Date: 3/28/16	Time: 8:00
Relinquished by:	Date: 3/26/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

R92

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	Sampler Name: Kirk A. Cavallee & Peter Hobbs
	Client: Los Angeles County	Date: 3/25/16
	Project Location: Aliso Canyon	

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
13 -CD	100 cm	Charcoal Disk	Kitchen - North Wall - Top of cabinet	NIOSH 1500/1501
19 - CD	100 cm	Charcoal Disk	Kitchen - Top of Refrigerator	NIOSH 1500/1501
19 - CDB			BLANK	NIOSH 1500/1501

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 11:00 am	Received by: V Murray Kay	Date: 3/28/16	Time: 804
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Kirk A. Cavaliers/ Peter Hass
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
3-GH	100 cm	GHOST WIPES	Kitchen - North Wall - Top of Cabinet	MOSH 7300
19-GH	100 cm	GHOST WIPES	Kitchen - Top of REFRIGERATOR	MOSH 7300
19-GHB		GHOST WIPES	BLANK	MOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 11:00 am	Received by:	Date: 3/28/16	Time: 804
Relinquished by:	Date: 3/28/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Brian Pierce
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
Res 9-CD	@ 100cm²	CHARCOAL DISK	NORTH FACING WINDOW	NIOSH 1500/1501
Res 9-GH	100cm²	GHOST WIPE	" "	NIOSH 7300
Res 21-CD	"	CHARCOAL DISK	NORTHWEST FACING WINDOW	NIOSH 1500/1501
Res 21-GH	"	GHOST WIPE	" " "	NIOSH 7300
Res 31-CD	"	CHARCOAL DISK	NORTH FACING TV & TREAD MILL	NIOSH 1500/1501
Res 31-GH	"	GHOST WIPE	" " "	NIOSH 7300
Res 31-GH-B'	"	GHOST WIPE	" " "	NIOSH 7300
Res 31-CD-B'	"	CHARCOAL DISK	" " "	NIOSH 1500/1501

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METALS– ghost wipes – In Tubes/green caps.
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 11:55	Received by:	Date: 3/28/16	Time: 757
Relinquished by:	Date: 3/26/16	Time: 945	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

R80

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church [redacted]	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: BRIAN PEELE (COYOTE)
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
42-CD	100cm²	CHARCOAL DISK	NORTH FACING WINDOW SILL	NIOSH 1500/1501
42-GH	"	GHOST WIPE	" " " "	NIOSH 7300
63-CD	"	CHARCOAL DISK	B. UPSTAIRS BEDROOM NORTH FACING WINDOW	NIOSH 1500/1501
63-GH	"	GHOST WIPE	" " " "	NIOSH 7300
74-CD	"	CHARCOAL DISC	NORTH FACING WINDOW IN ENTRY ROOM	NIOSH 1500/1501
74-GH	"	GHOST WIPE	" " " "	NIOSH 7300
51-CD	"	CHARCOAL DISC	LIVING ROOM NORTH FACING WINDOW SILL	NIOSH 1500/1501
51-GH	"	GHOST WIPE	" " " "	NIOSH 7300
89-GH	"	GHOST WIPE	UPSTAIRS BEDROOM NORTH FACING WINDOW	NIOSH 7300 SILL
89-CD	"	CHARCOAL DISK	" " " "	NIOSH 1500/1501

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 17:45	Received by: KMurray SGS	Date: 3/28/16	Time: 746
Relinquished by:	Date: 3/26/16	Time: 0400	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Bryan Pierce
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
115-CD	100 cm²	CARBON DISK	UPSTAIRS NORTH FACING WINDOW SILL	NIOSH 1500/1501
115-GH	"	GHOST WIPE	" " " " "	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1745	Received by:	Date: 3/28/16	Time: 746
Relinquished by:	Date: 3/26/16	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

RS

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 03.25.16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
114-CD	100cm²	Charcoal Disk.	Dining Room Window Seal	NIOSH 1500/1501
114-GH	100cm²	Ghost Wipe	Dining Room Window Seal	All compatible Metals, NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3.25.16	Time: 1750	Received by:	Date: 3/29/16	Time: 802
Relinquished by:	Date: 3/26/16	Time: 0700	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (114)
	Client: Los Angeles County	Sampler Name: Devin Beeman
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
112-CD	100 cm²	Charcoal disk	NW facing laundryroom atop dryer	NIOSH 1500/1501
112-GH	↓	Ghost Wipe	NW facing laundry room atop dryer	NIOSH 7300

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 Blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: Devin Beeman	Date: 3/25/16	Time: 1715	Received by: Zach King	Date: 3/28/16	Time: 8:04
Relinquished by:	Date: 3/26/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 (113)
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 3-25-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
M.J. 14-CD.	100 cm²	Charcoal Disk	North facing Kitchen / Family Room Door frame (leading to backyard)	NIOSH 1500 / 1501
M.J. 14-GH [redacted] M.J.	↓	Ghost Wipe	North Nook Area (across from kitchen) top of ceiling fan blade	All compatible Metals, NIOSH 7300
14-CD.		Charcoal Disk	Master Bedroom, Bottom door seal (East)	NIOSH 1500 / 1501
14-GH.		Ghost Wipe	Master Bedroom Bottom door seal (East)	All compatible Metals, NIOSH 7300
27-CD.		Charcoal Disk	Window Seal Next to Front Entrance	NIOSH 1500 / 1501
27-GH.		Ghost Wipe	Window Seal Next to Front Entrance	All compatible Metals, NIOSH 7300
59-CD.		Charcoal Disk	Living Room Window Seal (1st Window from door)	NIOSH 1500 / 1501
59-GH.		Ghost Wipe	Living Room Window Seal (1st Window from door)	All compatible Metals 7300

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – in tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1405	Received by: Zach King	Date: 3/28/16	Time: 8:03
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 (120)
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Weitzel Frank
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
RA46-GH	100cm	Wipes	~~Top surface ceiling fan~~ Windowsill ~~master bedroom~~ master bedroom North facing window	NIOSH 7300
RA46CD	100 cm	CHARCOAL	~~Top surface of ceiling fan~~ ~~master bedroom~~	NIOSH 1500/1501
RA54GH	100 cm	Wipes	North facing window sill of bedroom	NIOSH 7300
RA54 CD	100 cm	CHARCOAL	North facing window sill of bedroom	NIOSH 1500/1501
RA80 GH	100 cm	Wipes	Window sill, North facing. Livingroom	NIOSH 7300
RA80 CD	100 cm	CHARCOAL	Window sill, North facing Livingroom	NIOSH 1500/1501
RA110 GH	100 cm	Wipes	window sill North facing bedroom window	NIOSH 7300
RA110 CD	100 cm	CHARCOAL	North facing bedroom window sill	NIOSH 1500/1501

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1700	Received by: Zach King	Date: 3/28/16	Time: 8:01
Relinquished by:	Date: 3/28/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

(R89)

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church [redacted]	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Kurt Seubert
	Project Location: Aliso Canyon	Date: 8/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
55-GH.	100 cm²	GH	~~Piano horizontal surface~~ middle of living room.	NIOSH 7300 ~~1500/1501~~
55-CD.	100 cm²	CD	Dining room window sill N facing.	1500/1501
65-CD.	100 cm²	CD	window sill to 2nd floor Master bedroom N facing.	1500/1501
65-GH.	100 cm²	GH	2nd floor guest BR Dresser horizontal surface N facing.	NIOSH 7300
82-CD.	100 cm²	CD	2nd floor guest BR window sill	1500/1501
82-GH.	100 cm²	GH	2nd floor guest BR window sill.	NIOSH 7300
94-CD.	100 cm²	CD	living room ground floor window sill. N facing	1500/1501
94-GH.	100 cm²	GH	Dining room wind sill	NIOSH 7300
55-GH-B.	100 cm²	GH	Dining area	NIOSH 7300
55-CD-B	100 cm²	CD	Dining area	1500/1501

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METALS- ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk--in tubes/green caps
NIOSH 1500/1501

3-25-16

Relinquished by:	Date: ~~3/25/16~~	Time: 17:40	Received by:	Date: 3/28/16	Time: 749
Relinquished by:	Date: 3/26/16	Time: 09:00	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

RQ

Page ___ of ___

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Frank Weitzel
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
RA 4 - CO	100 cm²	Charcoal Disc	North facing bedroom window sill	NIOSH 1500/1501
RA 4 GH	100 cm²	Ghostwipe	North facing bedroom window sill	NIOSH 7300
RA 4 CO Blank	Blank	Blank	Blank	NIOSH 1500/1501
RA 4 GH - Blank	Blank	Blank	Blank	NIOSH 7300
RA 34 - CO	100 cm²	charcoal	North facing bedroom window sill	NIOSH 1500/1501
RA 34 GH	100 cm²	wipe	North facing bedroom window sill	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1251	Received by: Murray Kay	Date: 3/28/16	Time: 753
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

RB

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: LUCAS, WALLIN
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
17-CD	100 cm^2	Charcole Disk	North facing office/ study room desk Top	NIOSH 1500/1501
17-GH	100 cm^2	Ghost wipe	" "	NIOSH 7300
32-CD	100 cm^2	Charcole Disk	North facing child bed room window Sills	NIOSH 1500/1501
32-GH	100 cm^2	Ghost wipes	" " " " " "	NIOSH 7300
45-CD	100 cm^2	Charcole DISK	North facing kids room Window sills	NIOSH 1500/1501
45-GH	100 cm^2	Ghost wipes	" " " "	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
ZYLFIQAK AH	3/25/16	1:28		3/28/16	743
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Kurt Seidelt
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
7-CD	100 cm^2	CD	2nd Floor bedroom Sill N. Facing.	MOSH 1500/1501
7-GH	100 cm^2	GH	2nd Floor bedroom Sill N. Facing.	MOSH 7300
24-CD	100 cm^2	CD	2nd Floor Maitey bedroom Ceiling fan N. Facing	MOSH 1500/1501
24 GH	100 cm^2	GH	—	MOSH 7300
35-CD	100 cm^2	CD	2nd Floor BR N facing window sill	MOSH 1500/1501
35-GH	100 cm^2	GH	2nd floor BR N. facing Ceiling fan bedroom	MOSH 7300
47-CD	100 cm^2	CD	2nd Floor Master bathroom to night stand (left facing bed)	MOSH 1500/1501
47-GH	100 cm^2	GH	2nd floor Master bedroom top of tower fan.	MOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3-25-16	Time: 13:47	Received by: Kayla Murray	Date:	Time: 3:35/16 7441
Relinquished by:	Date: 3-26-16	Time: 0940	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 3.25.16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
68-CD.	100 cm^2	Charcoal Disk	Master Bathroom Window Seal	NIOSH 1500/1501
68-GH.	100 cm^2	Ghost Wipe	Master Bathroom Window Seal	All compatible Metals, NIOSH 7300
71-CD.	100 cm^2	Charcoal Disk	Guest Bathroom Window Seal	NIOSH 1500/1501
71-GH.	100 cm^2	Ghost Wipe	Guest Bathroom Window Seal	All compatible Metals, NIOSH 7300
71-CDB.	100 cm^2	Charcoal Disk	Guest Bathroom Window Seal	NIOSH 1500/1501
71-GH-B.	100 cm^2	Ghost Wipe	Guest Bathroom Window Seal	All compatible Metals, NIOSH 7300
87-CD.	100 cm^2	Charcoal Disk	Dining Area Window Seal	NIOSH 1500/1501
87-GH.	100 cm^2	Ghost Wipe	Dining Area Window Seal	All compatible Metals, NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3.25.16	Time: 1358	Received by: Kmurray Kyl	Date: 3/28/16	Time: 813
Relinquished by:	Date: 3/26/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: KYLE DONG, R. DULLABAUN
	Project Location: Aliso Canyon	Date: 3-25-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
37-CD.	100cm^2	Charcoal Disk	1st floor - Dining table Nareа of Dining Rm.	NIOSH 7300 1500/1501 RLO 3-25-16
37-GH.	100cm^2	Ghost Wipe	1st floor - Dining table Nareа of Dining Rm.	NIOSH 7300
53-CD.	100 cm^2	Charcoal Disk	2nd floor, top stairs hallway left windows sill	NIOSH 1500-1501
53-GH.	100cm^2	Ghost wipe	2nd floor, top stairs hall Left window sill	NIOSH 7300
78-CD.	100cm^2	Charcoal Disk	2nd floor - master bedroom Bay window sill (central)	NIOSH 1500/1501
78-GH.	100 cm^2	Ghost wipe	2nd floor - master bedroom Bay window sill (central)	NIOSH 7300
96-CD.	100cm^2	Charcoal Disk	Family Rm - Window sill	NIOSH 1500/1501
96-GH.	100cm^2	Ghost wipe	Family Rm. - window sill	NIOSH 7300

SGS Galson
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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS- ghost wipes - In Tubes/green caps
All compatible Metals, NIOSH 7300 blue

Total Hydrocarbons, badge disk-in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 610	Received by: Murray Kay	Date: 3/25/16	Time: 814
Relinquished by:	Date: 3/26/16	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

R26 Page ___ of ___

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Shannon Hall
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
56-GH.	100 cm²	Ghost-wipe	livingroom mantle	NIOSH 7300
56-CD.	100cm²	Charcoal DISK	living room mantle	NIOSH 1500/1501
77-GH.	100 cm²	Ghost-wipe	TV Cabinet top Shelf	NIOSH 7300
77-CD.	100 cm²	Charcoal Disk	TV Cabinet top Shelf	NIOSH 1500/1501
85-GH.	100cm²	Ghost Wipe	North facing, living room Window Sills	NIOSH 7300
85-CD.	100cm²	Charcoal Disk	North facing, living room Window Sills	NIOSH 1500/1501

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1657	Received by:	Date: 3/28/16	Time: 815
Relinquished by:	Date: 3/28/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

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TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Devin Berman
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
81-CD	100cm²	charcoal disk	(N) Facing livingroom window sill and track	NIOSH 1500/1501
50-CD	↓	↓	(N) facing living room on window sill	↓
81-GH	100cm²	Ghost wipe	(N) Facing livingroom window sill and track	NIOSH 7300
50-GH	↓	↓	(N) facing living Room on Window sill	↓

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

SGS Galson
6601 Kirkville Road
East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/~~green~~ caps
All compatible Metals; NIOSH 7300 Blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: Lyn Power	Date: 3/25/16	Time: 1605	Received by: Zach Lin	Date: 3/28/16	Time: 7:54
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church [redacted]	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: RC / kg
	Project Location: Aliso Canyon	Date: 3/25/2016

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Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
6-CD	100cm²	Charcoal Disk	NW Bedroom - next to laundry rm window sill	NIOSH 1500/1501
6-GH	↓	Ghost Wipe	NW Bedroom - next to laundry window sill	NIOSH 7300
20-CD	↓	Charcoal Disk	N side Living/Dining area ~~top of~~ upper window sill	NIOSH 1500/1501
20-GH	↓	Ghost Wipe	N side Living/Dining area upper window sill	NIOSH 7300
36-CD	100 cm²	Charcoal Disk	N side Master Bedroom window sill	NIOSH 1500/1501
36-GH	↓	Ghost wipe	N side Master Bedroom window sill	NIOSH 7300
36-CDB	N/A	Charcoal Disk	Field Blank	NIOSH 1500/1501
36-GHB	↓	Ghost Wipe	Field Blank	NIOSH 7300

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Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: [signature]	Date: 3/26/16	Time: 1224	Received by: Zach King [signature]	Date: 3/29/16	Time: 7:54
Relinquished by: [signature]	Date: 3/26/16	Time: 0940	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (118)
	Client: Los Angeles County	Sampler Name: ZACH FREEMAN
	Project Location: Aliso Canyon	Date: 3/25/14

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
02-CD	100 cm²	CHARCOAL DISK	NORTH FACING FORMAL DINING ROOM WINDOW SILL	NIOSH 1500/1501
02-GH	100 cm²	GHOST WIPE	NORTH FACING FORMAL DINING ROOM WINDOW SILL	NIOSH 7300
02-CD-B	100 cm²	CHARCOAL DISK	NORTH FACING FORMAL DINING ROOM WINDOW SILL	NIOSH 1500/1501
02-GH-B	100 cm²	GHOST WIPE	NORTH FACING FORMAL DINING ROOM WINDOW SILL	NIOSH 1500/1501
29-CD	100 cm²	CHARCOAL DISK	NORTH FACING WINDOW SILL NEAR LIVINGROOM	NIOSH 1500/1501
29-GH	100 cm²	GHOST WIPE	NORTH FACING WINDOW SILL NEAR LIVINGROOM	NIOSH 7300
41-CD	100 cm²	CHARCOAL DISK	WEST SIDE WINDOW SILL OF BEDROOM #1.	NIOSH 1500/1501
41-GH	100 cm²	GHOST WIPE	WEST SIDE WINDOW SILL OF BEDROOM #1.	NIOSH 7300
~~41~~				

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/14	Time:	Received by: Zach Kirr	Date: 3/28/16	Time: 7:50
Relinquished by:	Date: 3/26/16	Time: 0940	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

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WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 Robert Dellagatta
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: KYLE DANG
	Project Location: Aliso Canyon	Date: 3-25-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
12-GH.	100 cm²	Ghost Wipe	2nd Floor Bedroom, N wall top of armoire	NIOSH 7300
15-GH.	100 cm²	Ghost Wipe	2nd Floor Bedroom (Master) window sill (N Corner)	NIOSH 7300
~~3-25-16 RD 15-GHB~~				~~RD 3-25-16 NIOS 7300~~
12-CD.	100 cm²	Charcoal Disk	2nd Floor Bedroom, N wall top armoire	NIOSH 1500/1501
15-CD.	100 cm²	Charcoal Disk	2nd Floor Bedroom, N wall top armoire	NIOSH 1500/1501
15-CD-B.		Ghost Wipe		NIOSH 1500/1501
15-GH-B.		Ghost Wipe	Blank	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 13:00	Received by: Kmurray Kyle	Date: 3/28/16	Time: 744
Relinquished by:	Date: 3/28/16	Time: 0945	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Devin Berman
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
13-CD.	100 cm2	Charcoal Disk	North facing kitchen bay window shelf	NIOSH 1500/1501
13-CD-B.	~~100~~	charcoal disk	Blank	NIOSH 1500/1501
26-CD.	100cm²	charcoal disk	China hut lid/top in Livingroom DSB 3/25/16 North facing ~~Sofa~~ DSB 3/25/16	1500/1501
38-CD.	↓	↓	N facing living Room, East side, bottom shelf	1500/1501
13-GH.	100cm²	Ghost Wipe	North facing Kitchen window sill	NIOSH 7300
DD 13-GZ	100cm²	Gauze Wipe	~~North facing kitchen window sill~~ U.C.	~~X~~
DD 26-CD GH. DSB 3/25/16	100cm²	Ghost Wipe	China hut lid/top in Livingroom North facing	~~1500/1501~~ DSB 3/25/16 NIOSH 7300
38-GH.			N facing living Room, under TV in center	NIOSH 7300

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METALS– ghost wipes – In Tubes/~~green~~ caps
All compatible Metals, NIOSH 7300 Blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Devin Berman	3/25/16	1154	Kimberly Kay	3/25/16	811
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	3/26/16	0940			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

R73

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church [redacted]	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: (Diego) ~~Jason~~ Richard Orr
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
~~RD#~~ 10-CD RES	~~100 cm²~~	Charcoal Disc	window sill. Diningroom	NIOSH 1500/1501
~~RD#~~ 10-GH. RES	100 cm²	Ghost wipe	" "	NIOSH 7300
~~RD#~~ 23 RES CD	100cm²	Charcoal Disc	top of refrigerator in Kitchen	NIOSH 1500/1501
~~RD#~~ 23 RES GH	100cm²	Ghost wipe	" "	NIOSH 7300
~~RD#~~ 23 RES GH B	100 cm²	Ghost wipe	(Control.)	NIOSH 7300
~~RD#~~ 39 RES CD	100 cm²	Charcoal Disc	window sill - metal/Painted upstairs/North side facing.	NIOSH 1500/1501
~~RD#~~ 39 RES GH.	100 cm²	~~Charcoal~~ Ghost wipes	" "	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1310	Received by:	Date: 3/28/16	Time: 808
Relinquished by:	Date: 3/26/16	Time: 0940	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Clarification

Res - 10 - CD

Res - 10 - GH

Res - 23 - CD

Res - 23 - GH

Res - 23 - GHB

Res - 39 - CD

Res - 39 - GH

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (109)
	Client: Los Angeles County	Sampler Name: Shannan Hill
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
33-GH	100cm²	wipe	N facing top of Kitchen cabinet	NIOSH 7300
25GH	100cm²	ghost wipe	N facing table livingroom	NIOSH 7300
25GHB			Blank	NIOSH 7300
11-GH	100cm²	ghost wipe	N facing bedroom window sill	NIOSH 7300
33-CD	100cm²	carc disc	N facing Kitchen cabinet	NIOSH 1500/1501
11-CD	100cm²	carc disc	N facing window sill	NIOSH 1500/1501
25-CD	100cm²	"	N facing table	NIOSH 1500/1501
25-CDB	100cm²	"	Blank	NIOSH 1500/1501

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – in Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1334	Received by:	Date: 3/25/16	Time: 8:12
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 (110)
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Haroutyun C. Delgoyan
	Project Location: Aliso Canyon	Date: March 25, 2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
8-CD.	100 cm 2	Charcoal Disk	Stairwell window Sill #1 (North)	NIOSH 1500 / 1501
8-GH.	100cm2	Ghost wipe	Stairwell window Sill #1 (north)	NIOSH 7300
22-CD.	100cm2	Charcoal Disk	North side living Room window Sill #1	NIOSH 1500 / 1501
22-GH.	100cm2	Ghost wipe	north Side living Room window Sill #1	NIOSH 7300
30-CD.	100cm2	Charcoal Disk	Master bedroom - Dresser top 2nd Floor	NIOSH 1500 / 1501
30-GH.	100cm2	Ghost wipe	Master bedroom - Dresser top 2nd Floor	NIOSH 7300
30-CD-B.	100cm2	charcoal Disk	Master Bedroom 2nd Floor. Dresser top	NIOSH 1500/1501
30-GH-B.	100cm2	Ghost wipe	Master Bedroom 2nd Floor Dresser Top	NIOSH 7300
48-CD. 58-	100cm2	Charcoal Disk	Master Bedroom (north end of home) window Sill	NIOSH 1500/1501
48-58-GH.	100cm2	Ghost wipe	↓	NIOSH 7300

9/15/20 CH

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 Blue H.D.

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 5:40 PM	Received by: Zach King	Date: 3/28/16	Time: 8:14
Relinquished by:	Date: 3/26/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Harnesh Delcayan
	Project Location: Aliso Canyon	Date: March 25, 2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
67-CD	100cm2	Charcoal DISK	Master Bedroom - 2nd Floor Top of Book Shelf	NIOSH 1500/1501
67-GH	100cm2	Ghost wipe	" "	NIOSH 7300
68-CD	100cm2	Charcoal DISK	North West Bedroom (New Furniture) - windowsill	NIOSH 1500/1501
68-GH	100cm2	Ghost wipe	" "	NIOSH 7300
95-CD	100cm2	Charcoal DISK	2nd Floor - Northern Bedroom - windowsill	NIOSH 1500/1501
95-GH	100cm2	Ghost wipe	2nd Floor - northern Bedroom - windowsill	NIOSH 7300

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals: NIOSH 7300 BMC

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501 Jhan

Relinquished by:	Date: 3/25/16	Time: 5:40 PM	Received by: Zach King	Date: 3/25/16	Time: 8:4
Relinquished by:	Date: 3/26/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (112)
	Client: Los Angeles County	Sampler Name: ZACH FREEMAN
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
69-CD	100cm²	CHARCOAL DISK	NORTH FACING WOODEN GLASS TABLE ADJACENT TO WINDOW	NIOSH 1500/1501
69-GH	100 cm²	GHOST WIPE	NORTH FACING WOODEN GLASS TABLE ADJACENT TO WINDOW	NIOSH 7300
86-CD	100cm²	CHARCOAL DISK	SOUTH FACING GARAGE TABLETOP NEAR WINDOW	NIOSH/ 1500/1501
86-GH	100cm²	GHOST WIPE	SOUTH FACING GARAGE TABLETOP NEAR WINDOW	NIOSH 7300
113-CD	100 cm²	CHARCOAL DISK	NORTH FACING WINDOW SILL ADJACENT TO FIREPLACE.	NIOSH 1500/1501
113-GH	100cm²	GHOST WIPE	NORTH FACING WINDOW SILL ADJACENT TO FIREPLACE.	NIOSH 7300

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time:	Received by: Zach King	Date: 3/28/16	Time: 5:18
Relinquished by:	Date: 3/26/16	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 (111)
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Devin Herman
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
48-CD.	100 cm²	Carbon disk	(N) facing windowframe (E) in living room	NIOSH 1500/1501
5-CD.	↓	↓	(N) facing windowframe in (N) facing living room	↓
73-CD.	↓	↓	(N) facing living room on window sill DS 3/25/16	↓
5-GH.	100 cm²	Ghost Wipe XS 3/25/16	(N) facing windowframe in (N) facing living room	MOSH 7300
48-GH.	100 cm²	Ghost wipe	(N) facing windowframe (W) in living room	NIOSH 7300
48-GH-B	↓	↓	Blank	↓
73-GH.	↓	↓	(N) facing living room on windowsill	↓

807588546530
Date:03/28/16
Shipper:FEDEX
Initials:
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/~~green~~ caps
All compatible Metals, NIOSH 7300 Blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: Devin Herman	Date: 3/25/16	Time: 1420	Received by: Zach King	Date: 3/28/16	Time: 8:17
Relinquished by:	Date: 3/26/16	Time: 0920	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048 (115)
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Richard Orr
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
RES-44 CD	100 cm²	Charcoal Disk Granit	Kitchen window sill North facing	1500/1501
RES-44 GH	100 cm²	Charcoal Disk Ghost wipe	" "	7300
RES-64 CD	100 cm²	Charcoal Disk Wood/Paint	Window sill North facing Office Room	1500/1501
RES-64 GH	100 cm²	Charcoal Disk Ghost wipe	" "	7300
RES-64 CDB		Charcoal Disk	Control-	1500/1501
RES-75 CD	100 cm²	Charcoal Disk Granit	Kitchen window sill Granit	1500/1501
RES-75 GH	100 cm²	Charcoal Disk Ghost wipe Granit	Kitchen " " "	7300
RES-83 CD	100 cm²	Wood/Paint Charcoal	Upstair bedroom N facing	1500/1501
RES-83 GH	100 cm²	Ghost wipe Charcoal Disk	" "	7300
RES-93 CD	100 cm²	Painted wood Charcoal Disk	Window sill North facing Living Room.	1500/1501

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1810	Received by: Zach King	Date: 3/28/16	Time: 8:07
Relinquished by:	Date: 3/26/16	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Rychard
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
RES #93 GH.	100 cm²	Sheetrock Painted wood.	Window Sill North Facing in Living Room	7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 18:10	Received by: Zach King	Date: 3/26/16	Time: 8:07
Relinquished by:	Date: 3/25/16	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Clarification - Messy Chain of Custody !!

Res-44-CD
Res-44-GH
Res-64-CD
Res-64-GH
Res-64-CDB
Res-75-CD
Res-75-GH
Res-83-CD
Res-83-GH
Res-93-CD
Res-93-GH

CHAIN OF CUSTODY FORM

R85

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church [redacted]	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: ~~Mark Grotheer~~ Peter Habib
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
28 - CD	100 Cm	Charcoal Disk	Mantle on top of fireplace inside family room	NIOSH 1500/1501
40 - CD	100 Cm	Charcoal Disk	Laundry Room - Window Sills	
52 - CD	100 Cm	Charcoal Disk	Upstairs office - window sill	
61 - CD	100 Cm	Charcoal Disk	Top of Entertainment center in living room	
72 - CD	100 Cm	Charcoal Disk	North Facing Window Sill in living room	
111 - CD	100 Cm	Charcoal Disk	Window Sill - North facing @ office/bedroom location	
~~97~~ CD	100 Cm	Charcoal Disk	Window Sill - North Facing window in living room	
91 per client 00 3/				

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East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/	Time: 5:30	Received by: Kimura	Date: 3/28/16	Time: 819
Relinquished by:	Date: 3/30/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: ~~KIRK A GROVE~~ PETER HABIB
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
28-GH	100cm	Ghost Wipes	Mantle on top of Fireplace inside family Room	NIOSH 7300
40-GH	100 cm	Wipes	Laundry Room Window Sill	↓
52-GH	100 cm	Wipes	Top of Entertainment center along North wall of family	↓
61-GH	100 Cm	Wipes	Window Sill - Upstairs loft - North facing window	↓
72-GH	100 Cm	Wipes	North Facing window Sill inside Living room	↓
111-GH	100 Cm	Wipes	Window Sill - North Facing at office/bedroom location	↓
~~99~~-GH	100 Cm	Wipes	Window Sill - North Facing window located in living room	↓
91 80 3/28/16				

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METALS– ghost wipes – In Tubes/~~green caps~~
All compatible Metals, NIOSH 7300 Blue

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 5:30	Received by:	Date: 3/28/16	Time: 819
Relinquished by:	Date: 3/26/16	Time: 840	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (105)
	Client: Los Angeles County	Sampler Name: Lucas Wallen
	Project Location: Aliso Canyon	Date: 3/25/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
60-CD	100 Cm^2	Charcole Disk	Counter top under T.V. located in Den area facing North	NIOSH 1500/1501
60-GH	~~Ghost~~ ~~wipes~~ 100cm^2	Ghost wipes	" " " "	NIOSH 7300
70-CD	100 Cm^2	Charcole Disk	top of Refregerator unit located inside kitchen Facing	NIOSH 1500/1501
70-GH	100 Cm^2	Ghost wipes	north side top of refergerator in side kitchen Facing north	NIOSH 7300
79-CD	100 Cm^2	Charcole Disk	window sills inside bedroom #1 Facing North	NIOSH 1500/1501
79-GH	100 Cm^2	Ghost wipes	" " " "	NIOSH 7300
79-CD-B	"	Charcole Disk	" " " "	NIOSH 1500/1501
79-GH-B	"	Ghost wipes	" " " "	NIOSH 7300
90-CD	"	Charcole Disk	Night stand table top in room #3, Facing North/West	NIOSH 1500/1501
90-GH	"	Ghost wipes	" " " "	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/25/16	Time: 1700	Received by: Zach King	Date: 3/28/16	Time: 8:20
Relinquished by:	Date: 3/26/16	Time: 0910	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

March 31, 2016

DOH ELAP #11626 Account# 30549 Login# L370958
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on March 30, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted] **Lab ID : L370958-2** **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	1500	15	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	52	0.52	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	2.0	0.020	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	3200	32	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	87	0.87	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	5.4	0.054	ug/cm2
Strontium	5.0	22	0.22	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-2 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	9.0	0.090	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-4 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	860	8.6	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	22	0.22	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	5.9	0.059	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	1800	18	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	46	0.46	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	5.5	0.055	ug/cm2
Strontium	5.0	12	0.12	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-4 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	6.0	0.060	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-6 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-6 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-7 **Wipe Area : NA**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-7 **Wipe Area : NA**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-10 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	3500	35	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	100	1.0	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	7.7	0.077	ug/cm2
Cobalt	1.5	4.0	0.040	ug/cm2
Copper	20.	36	0.36	ug/cm2
Iron	250	6600	66	ug/cm2
Lead	10.	13	0.13	ug/cm2
Manganese	5.0	160	1.6	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	11	0.11	ug/cm2
Strontium	5.0	55	0.55	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-10 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	16	0.16	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-12 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	1800	18	ug/cm2
Antimony	10.	62	0.62	ug/cm2
Barium	5.0	51	0.51	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	2.5	0.025	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	3500	35	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	88	0.88	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	5.6	0.056	ug/cm2
Strontium	5.0	32	0.32	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Date Sampled : 03/28/16

Lab ID : L370958-12 **Wipe Area : 100 cm2**
Date Analyzed : 03/31/16

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	8.6	0.086	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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6601 Kirkville Road
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-14 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 28-MAR-16
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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-14 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-16 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	6.8	0.068	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	310	3.1	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-16 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-18 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-18 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Date Sampled : 03/28/16

Lab ID : L370958-20 **Wipe Area : 100 cm2**
Date Analyzed : 03/31/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-20 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-22 **Wipe Area : NA**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-22 **Wipe Area : NA**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-24 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	10	0.10	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	390	3.9	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	7.9	0.079	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	3.4	0.034	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Date Sampled : 03/28/16

Lab ID : L370958-24 **Wipe Area : 100 cm2**
Date Analyzed : 03/31/16

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-26 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-26 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
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Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-28 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-28 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-30 **Wipe Area : NA**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-30 **Wipe Area : NA**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-32 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 28-MAR-16
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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Date Sampled : 03/28/16

Lab ID : L370958-32 **Wipe Area : 100 cm2**
Date Analyzed : 03/31/16

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-34 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-34 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-36 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-36 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-38 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	300	3.0	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	5.1	0.051	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	22	0.22	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	20	0.20	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-38 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-40 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-40 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-42 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-42 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Date Sampled : 03/28/16

Lab ID : L370958-44 **Wipe Area : 100 cm2**
Date Analyzed : 03/31/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-44 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-46 **Wipe Area : NA**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-46 **Wipe Area : NA**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-48 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-48 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-50 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-50 **Wipe Area : 100 cm2**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-51 **Wipe Area : NA**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]
Lab ID : L370958-51 **Wipe Area : NA**
Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-53 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-53 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-56 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 31-MAR-16
Report ID : 929609

[redacted]

Lab ID : L370958-56 **Wipe Area : 100 cm2**

Date Sampled : 03/28/16 **Date Analyzed : 03/31/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 31-MAR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh/jmr
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 30-MAR-16 - 31-MAR-16
Report ID : 929498

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370958-1	100	<40	<40	<0.40
L370958-3	100	<40	<40	<0.40
L370958-5	100	<40	<40	<0.40
L370958-8	NA	<40	<40	NA
L370958-9	100	<40	<40	<0.40
L370958-11	100	<40	<40	<0.40
L370958-13	100	<40	<40	<0.40
L370958-15	100	<40	<40	<0.40
L370958-17	100	<40	<40	<0.40
L370958-19	100	<40	<40	<0.40
L370958-21	NA	<40	<40	NA
L370958-23	100	<40	<40	<0.40
L370958-25	100	<40	<40	<0.40
L370958-27	100	<40	<40	<0.40
L370958-29	NA	<40	<40	NA
L370958-31	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 31-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Project No. : 603287.048
Date Sampled : 28-MAR-16
Date Received : 30-MAR-16

Account No.: 30549
Login No. : L370958

Date Analyzed : 30-MAR-16 - 31-MAR-16
Report ID : 929498

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L370958-33	100	<40	<40	<0.40
L370958-35	100	<40	<40	<0.40
L370958-37	100	<40	<40	<0.40
L370958-39	100	<40	<40	<0.40
L370958-41	100	<40	<40	<0.40
L370958-43	100	<40	<40	<0.40
L370958-45	NA	<40	<40	NA
L370958-47	100	<40	<40	<0.40
L370958-49	100	<40	<40	<0.40
L370958-52	NA	<40	<40	NA
L370958-54	100	<40	<40	<0.40
L370958-55	100	<40	<40	<0.40

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 31-MAR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

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(315) 432-5227
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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 28-MAR-16 Account No.: 30549
Date Received: 30-MAR-16 Login No. : L370958
Date Analyzed: 30-MAR-16 - 31-MAR-16

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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L370958 (Report ID: 929609):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L370958 (Report ID: 929609):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-13.3%	100%
Antimony	+/-13.3%	100%
Barium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 28-MAR-16 Account No.: 30549
Date Received: 30-MAR-16 Login No. : L370958
Date Analyzed: 30-MAR-16 - 31-MAR-16

Beryllium	+/-13.3%	100%
Cadmium	+/-7.8%	103%
Chromium	+/-13.3%	100%
Cobalt	+/-13.3%	100%
Copper	+/-13.3%	100%
Iron	+/-13.3%	100%
Lead	+/-26.2%	101%
Manganese	+/-13.3%	100%
Molybdenum	+/-13.3%	100%
Nickel	+/-13.3%	100%
Strontium	+/-13.3%	100%
Thallium	+/-13.3%	100%
Vanadium	+/-13.3%	100%

Parameter	Method	PEL
Aluminum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Antimony	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Barium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Beryllium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cadmium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Chromium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cobalt	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Copper	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Iron	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Lead	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Manganese	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Molybdenum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Nickel	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Strontium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Thallium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Vanadium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA

L370958 (Report ID: 929498):
Total ug corrected for a desorption efficiency of 100%.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 28-MAR-16 Account No.: 30549
Date Received: 30-MAR-16 Login No. : L370958
Date Analyzed: 30-MAR-16 - 31-MAR-16

L370958 (Report ID: 929498):
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The total VOC analysis should be used for screening purposes only. All values are estimated based on the response of n-Hexane. Please contact client services in regards to reporting the sample(s) for the tentatively identified compounds. For the sample(s) that are non-detect no tentative identifications will be provided. The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.

L370958 (Report ID: 929498):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Total Hydrocarbons	+/-16.7%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

CHAIN OF CUSTODY FORM

1370958 Page 1 of 3

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (R115) (R116)
	Client: Los Angeles County	Sampler Name: Shannan Hill/IvanMyers
	Project Location: Aliso Canyon	Date: 3/28/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
PRC-CD-1	100cm²	Charcoal disk	2-138 Classroom ID NW window sill	NIOSH 1500/1501
PRC-GH-1	100cm²	Ghost wipe	2-138 Classroom ID NW window sill	NIOSH 7300
PRC-CD-2	100cm²	Charcoal disk	MPR Push bars on N exit door	NIOSH 1500/1501
PRC-GH-2	100cm²	Ghost wipe	MPR Push bars on N exit door	NIOSH 7300
PRC-CD-3	100cm²	Charcoal disk	Library NW corner on bookshelf	NIOSH 1500/1501
PRC-GH-3	100cm²	Ghost wipe	Library NW corner on bookshelf	NIOSH 7300
PRC-GH-3B	n/a	Ghost wipe	Blank	NIOSH 7300
PRC-CD-3B	n/a	Charcoal disk	Blank	NIOSH 1500/1501
PRC-CD-4	100cm²	Charcoal disk	4-108 NE window sill	NIOSH 1500/1501
PRC-GH-4	100cm²	Ghost wipe	4-108 NE window sill	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300
Al, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sn, Ti, V
Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/28/16	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date: 3/28/16	Time: 1500	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 3/30/16	Time: 0725

NOTES REPORT TO MDL, (J-FLAG)

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Shannan Hill / Ivan Myers
	Project Location: Aliso Canyon	Date: 3/28/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
~~PRC-GW-1~~	100cm²	~~Ghost wipes~~	~~2-138 Classroom 10 NW window sill~~ CW 3/29/16	
PRC-CD-5	100cm²	Charcoal DISK	4-210 NW WINDOW SIL	NIOSH 1500 /1501
PRC-GH-5	100cm²	GHOST WIPE		NIOSH 7300
CB-~~GH~~-CD-1 CW 3/29/16	100cm²	Charcoal disk	Classroom 14 NW cabinet top	NIOSH 1500/ 1501
CB-GH-1	100cm²	Ghost wipe	Classroom 14 NW cabinet top	NIOSH 7300
CB-~~GH~~-2	100cm²	Charcoal disk	Classroom 8 NE cabinet top	NIOSH 1500/ 1501
CB-GH-2	100cm²	Ghost wipe	Classroom 8 NE cabinet top	NIOSH 7300
CB-CD-3	100cm²	Charcoal disk	Classroom K2 NW corner teacher's desk	NIOSH 1500/ 1501
CB-GH-3	100 cm²	Ghost wipe	Classroom K2 NW corner teacher's desk	NIOSH 7300
CB-CD-4	100 cm²	Charcoal disk	Library NW cabinet top	NIOSH 1500/ 1501

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METALS– ghost wipes – In Tubes/green caps GH
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps CD
NIOSH 1500/1501

Relinquished by:	Date: 3/28/16	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1500	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: M Ilcrane	Date: 3/30/16	Time: 0725

NOTE: REPORT TO MDL (J-FLAG)

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Shannan Hill / Iran Onyers
	Project Location: Aliso Canyon	Date: 3/29/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
CB-GH-4	100cm²	Ghost wipes	Library NW cabinet top	NIOSH 7300
CB-CD-4B	n/a	Charcoal dusk	Blank	NIOSH 1500/1501
CB-GH-4B	n/a	Ghost wipes	Blank	NIOSH 7300
CB-CD-5	100cm²	Charcoal dusk	Conference Rm (staff lounge) NE cabinet top	NIOSH 1500/1501
CB-GH-5	100 cm²	Ghost wipes	Conference Rm (Staff lounge) NE cabinet top	NIOSH 7300

Laboratory Name SGS Galson
Address 6601 Kirkville Road, East Syracuse, NY 13057
Contact Person
Phone Number
Fax Number Email

AW 3/28/16
~~Alcohol wipes:~~ METALS - Ghost wipes - in tubes
Analytical Method: ~~GCMS~~ NIOSH 7300

AW 3/28/16
~~Chemical category:~~ Qualitative Petroleum Hydrocarbon Fingerprint
Total hydrocarbons - badge dusk NIOSH 1500/1501

Relinquished by:	Date: 3/29/16	Time: 1100	Received by:	Date:	Time:	
Relinquished by:	Date: 3/29/16	Time: 1300	Received by:	Date:	Time:	
Relinquished by:	Date:	Time:	Received by: M. Liburn	Date: 3/30/16	Time: 0725	

NOTE: RESULTS TO MDL (SGS EMT)

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

R114

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: KIRK A. CAVALIERE
	Project Location: Aliso Canyon	Date: 3/28/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
97-CD	100 CM²	CARBON DISC	LIVING ROOM, N. WALL, WINDOW SILL	NIOSH 1500/1501
97-GH	100 CM²	GHOST WIPE	LIVING ROOM, N. WALL, WINDOW SILL	NIOSH 7300
118-CD	100 CM²	CARBON DISC	LIVING ROOM, N. WALL, ~~WINDOW~~ SILL TV STAND	NIOSH 1500/1501
118-GH	100 CM²	GHOST WIPE	LIVING ROOM, N. WALL, ~~WINDOW~~ SILL, TV STAND	NIOSH 7300
			807588546427 Date:03/30/16 Shipper:FEDEX Initials:SK Prep:UNKNOWN	
97-CD-B		CARBON DISC	BLANK	NIOSH 1500/1501
97-GH-B		GHOST WIPE	BLANK	NIOSH 7300

SGS Galson
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East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 BLUE

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/28/16	Time: 12:26	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 13:26	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 3/30/16	Time: 0725

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (R13)
	Client: Los Angeles County	Sampler Name: ENRICO FLORES
	Project Location: Aliso Canyon	Date: 3-28-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
94-CD	100 Sq cm	CD	North Sliding Door Floor	NIOSH 7300
94-GH	100 Sq cm	GH	North Sliding Door Floor	NIOSH 7300
101-CD.	100 Sq cm	CD	North Sliding Door Floor	NIOSH 7300
101-GH.	100 Sq cm	GH	North Sliding Door Floor	NIOSH 7300
121-CD.	100 Sq cm	CD	North Sliding Door Floor	NIOSH 1500
121-GH.	100 Sq cm	GH	North Sliding Door Floor	NIOSH 7300

807588546427
Date:03/30/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

SGS Galson
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East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300
Note: Report MDL & Flag
Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/28/16	Time: 5:15	Received by:	Date:	Time:
Relinquished by:	Date: 3/28/16	Time: 5:15	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: M. Cruz	Date: 3/30/16	Time: 0925

CHAIN OF CUSTODY FORM

(R112)

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Howard Dekeyan / Robin Fomaroli
	Project Location: Aliso Canyon	Date: March 28, 2016

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
100-CD.	100cm²	Charcoal DISK	North wall, Guest Bedroom Window Sill	NIOSH 1500/1501
100-GH.	100cm²	Ghost wipe	↓	NIOSH 7300
103-CD.	100cm²	charcoal DISK	Playroom, Window sill	NIOSH 1500/1501
103-GH.	100cm²	Ghost Wipe	Playroom, Window sill	NIOSH 7300
~~CD~~ 102-CD	100 Cm2	Charcoal Disk	Kitchen, Sliding glass door ~~French door~~, lower Frame	NIOSH / 1500/1501
102-GH.	100 Cm2	Ghost wipe	↓	NIOSH, 7300
116-CD.	100cm²	Charcoal Disk	Family room Window sil	NIOSH 1500/1501
116-GH.	100cm2	Ghost Wipe	↓	NIOSH 730
116-CD-B.	100cm2	Charcoal DISK	↓	NIOSH 1500/1501
116-GH-B.	100cm2	Ghost Wipe	↓	NIOSH 7300

807588546427
Date:03/30/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

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East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/29/16	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1700	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1750	Received by: MKraus	Date: 3/30/16	Time: 0725

Note: Report to MDL, (5 Plus)

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (1211)
	Client: Los Angeles County	Sampler Name: Kunal Sejpal
	Project Location: Aliso Canyon	Date: 3-28-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
119-CD	100 SQ cm	CD	Chief Floor north Room	~~NIOSH 7300~~ NIOSH 1500
119-GH	100 SQcm	GH	Chief Floor North Room	NIOSH 7300
117-CD	100 SQ Cm	CD	Bonus Room window sill	NIOSH 1500
117-GH	100 SQ cm	GH	Bonus Room window sill	NIOSH 7300
~~Blank~~ SK				
			807588546427 Date:03/30/16 Shipper:FEDEX Initials:SK Prep:UNKNOWN	
3/25/2016 119-GHB Blank	Blank	GH		NIOSH 7300
3/25/16 119-CDB Blank	Blank	CD		NIOSH ~~1500~~ ~~7300~~

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East Syracuse, NY 13057
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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300
REPORT DOWN TO MDL (J-FLAG)
Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/28/16	Time: 12:30	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 13:40	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 3/30/16	Time: 07:25

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

R110

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Shannan Hill
	Project Location: Aliso Canyon	Date: 3/29/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
43-GH	100cm²	ghost wipe	living room cabinet	NIOSH 7300
43-CD	100cm²	carbon disk	living room cabinet	NIOSH 1500/1501

807588546427
Date:03/30/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

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East Syracuse, NY 13057
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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 3/29/16	Time: 1100	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1715	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 3/30/16	Time: 0725

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (R109)
	Client: Los Angeles County	Sampler Name: Wallace Bonnies
	Project Location: Aliso Canyon	Date: 3-29-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
120-CD	100 cm^2	Charcoal Disk	North facing patio - sliding glass doors floor	NIOSH 1500
120-GH	100 cm^2	Ghost Wipe	North facing patio - sliding glass doors floor	NIOSH 7300

807588546427
Date:03/30/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

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East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: Wallace Bonnies	Date: 3-29-16	Time: 1135	Received by:	Date:	Time:
Relinquished by:	Date: 3/29/16	Time: 1140	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: M Krause	Date: 3/30/16	Time: 0725

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 25, 2016

DOH ELAP #11626 Account# 30549 Login# L373191
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 25, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

SGS GALSON LABORATORIES

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(315) 432-5227
FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted] **Lab ID : L373191-2** **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-2 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-4 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-4 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Lab ID : L373191-6 **Wipe Area : 100 cm2**
Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-6 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-8 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-8 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Date Sampled : 04/20/16

Lab ID : L373191-10 **Wipe Area : 100 cm2**
Date Analyzed : 04/25/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-10 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-12 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Date Sampled : 04/20/16

Lab ID : L373191-12 **Wipe Area : 100 cm2**
Date Analyzed : 04/25/16

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-14 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Date Sampled : 04/20/16

Lab ID : L373191-14 **Wipe Area : 100 cm2**
Date Analyzed : 04/25/16

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted] **Lab ID : L373191-16** **Wipe Area : 100 cm2**
Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-16 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Date Sampled : 04/20/16

Lab ID : L373191-18 **Wipe Area : 100 cm2**
Date Analyzed : 04/25/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	340	3.4	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	11	0.11	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	750	7.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	14	0.14	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	1.8	0.018	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-18 **Wipe Area : 100 cm2**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	2.3	0.023	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Date Sampled : 04/20/16

Lab ID : L373191-20 **Wipe Area : 100 cm2**
Date Analyzed : 04/25/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Lab ID : L373191-20 **Wipe Area : 100 cm2**
Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]
Lab ID : L373191-22 **Wipe Area : NA**
Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933528

[redacted]

Lab ID : L373191-22 **Wipe Area : NA**

Date Sampled : 04/20/16 **Date Analyzed : 04/25/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 25-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933530

Acetone

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L373191-5	100	15	15	0.15
L373191-7	100	27	27	0.27
L373191-9	100	30	30	0.30
L373191-11	100	16	16	0.16
L373191-13	100	17	17	0.17
L373191-15	100	24	24	0.24
L373191-19	100	47	47	0.47

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 10. ug
Analytical Method : mod. NIOSH 1300; GC/FID BADGE
OSHA PEL : 1000 ppm (TWA)
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : dnf
Date : 25-APR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933514

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L373191-1	100	210	210	2.1
L373191-3	100	560	560	5.6
L373191-5	100	960	960	9.6
L373191-7	100	1600	1600	16
L373191-9	100	1600	1600	16
L373191-11	100	800	800	8.0
L373191-13	100	760	760	7.6
L373191-15	100	1500	1500	15
L373191-17	100	570	570	5.7
L373191-19	100	2800	2800	28
L373191-21	NA	670	670	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : dnf
Date : 25-APR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 20-APR-16
Date Received : 25-APR-16

Account No.: 30549
Login No. : L373191

Date Analyzed : 25-APR-16
Report ID : 933531

Isopropyl Alcohol

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L373191-1	100	390	400	4.0
L373191-3	100	1100	1100	11
L373191-5	100	1900	1900	19
L373191-7	100	3100	3100	31
L373191-9	100	3100	3200	32
L373191-11	100	1500	1600	16
L373191-13	100	1500	1500	15
L373191-15	100	3000	3100	31
L373191-17	100	1100	1100	11
L373191-19	100	5400	5500	55
L373191-21	NA	1300	1300	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5 ug
Analytical Method : mod. NIOSH 1400; GC/FID BADGE
OSHA PEL : 400 ppm (TWA)
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : dnf
Date : 25-APR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 20-APR-16
Date Received: 25-APR-16
Date Analyzed: 25-APR-16

Account No.: 30549
Login No. : L373191

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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L373191 (Report ID: 933528):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L373191 (Report ID: 933528):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-13.3%	100%
Antimony	+/-13.3%	100%
Barium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 20-APR-16 Account No.: 30549
Date Received: 25-APR-16 Login No. : L373191
Date Analyzed: 25-APR-16

Beryllium	+/-8%	101%
Cadmium	+/-7.8%	103%
Chromium	+/-13.3%	100%
Cobalt	+/-13.3%	100%
Copper	+/-13.3%	100%
Iron	+/-13.3%	100%
Lead	+/-26.2%	101%
Manganese	+/-13.3%	100%
Molybdenum	+/-13.3%	100%
Nickel	+/-13.3%	100%
Strontium	+/-13.3%	100%
Thallium	+/-13.3%	100%
Vanadium	+/-13.3%	100%

Parameter	Method	PEL
Aluminum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Antimony	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Barium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Beryllium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cadmium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Chromium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cobalt	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Copper	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Iron	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Lead	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Manganese	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Molybdenum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Nickel	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Strontium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Thallium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Vanadium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA

L373191 (Report ID: 933530):
Total ug corrected for a desorption efficiency of 99%.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 20-APR-16 Account No.: 30549
Date Received: 25-APR-16 Login No. : L373191
Date Analyzed: 25-APR-16

L373191 (Report ID: 933530):
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The standard procedure is to prepare the charcoal wipe in the container that it was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.

L373191 (Report ID: 933530):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Acetone	+/-8.7%	96.2%

L373191 (Report ID: 933514):
Total ug corrected for a desorption efficiency of 100%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The total VOC analysis should be used for screening purposes only. All values are estimated based on the response of n-Hexane. Please contact client services in regards to reporting the sample(s) for the tentatively identified compounds. For the sample(s) that are non-detect no tentative identifications will be provided.
The standard procedure is to prepare the charcoal wipe in the container that it was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.
Sample results have not been corrected for the blank value. A laboratory blank was prepared and analyzed with the samples. The laboratory blank concentration was less than the detection limit.

L373191-1,3,5,7,9,11,13,15,17,19,21 (Report ID: 933514):
Tentative Identification includes: Other unknown volatile organic compounds.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 20-APR-16
Date Received: 25-APR-16
Date Analyzed: 25-APR-16

Account No.: 30549
Login No. : L373191

L373191 (Report ID: 933514):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Total Hydrocarbons	+/-16.7%	100%

L373191 (Report ID: 933531):
Total ug corrected for a desorption efficiency of 98%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The standard procedure is to prepare the charcoal wipe in the container that it was received in. These samples were not
received in glass containers but were received in plastic. We are unable to prepare the samples in the container they
were received in. Effect on the results is unknown.
Sample results have not been corrected for the blank value. A laboratory blank was prepared and
analyzed with the samples. The laboratory blank concentration was less than the detection limit.

L373191 (Report ID: 933531):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Isopropyl Alcohol	+/-10.1%	95.9%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

CHAIN OF CUSTODY FORM

L373191 (A73)(14)

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Carlos (Vista), Wallace S.
	Project Location: Aliso Canyon	Date: 4-20-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
PRC-CD-6 *	100 cm²	charcoal disk	Classroom #2-136 NW facing window sill	NIOSH 1500/1501
PRC-GH-6	100 cm²	ghost wipe	" " " "	NIOSH 7300
PRC-CD-7 *	100 cm²	charcoal disk	Classroom #3-161A (plant manager's room) N facing window sill	NIOSH 1500/1501
PRC-GH-7	100 cm²	ghost wipe	" " " "	NIOSH 7300
PRC-CD-8 *Δ	"	charcoal wipe	Room #2-154 in Library E facing window sill	NIOSH 1500/1501
PRC-GH-8	"	ghost wipe	" " " "	NIOSH 7300
PRC-CD-9 *Δ	"	charcoal disk	Classroom #4-110 N facing window sill	NIOSH 1500/1501
PRC-GH-9	"	ghost wipe	" " " "	NIOSH 7300
PRC-CD-10 *Δ	"	charcoal disk	Classroom #4-212 N facing window sill	NIOSH 1500/1501
PRC-GH-10	"	ghost wipe	" " " "	NIOSH 7300

Nicole Tormey, Environment, Health & Safety Client Service Representative
SGS Galson
16 Technology Dr, Suite 132
Irvine CA, 92618
Phone: +1 315 432 5227 (Client Services)
E-mail: Nicole.Tormey@sgs.com

METALS– ghost wipes
All compatible Metals, NIOSH 7300
Al, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sr, Ti, V
Total Hydrocarbons, badge disk
NIOSH 1500/1501
* All Torch
Δ All Al

Relinquished by: (Wallace Services)	Date: 4-20-16	Time: 19:2	Received by: [signature]	Date: 4/20/16	Time: 9:30
Relinquished by: [signature]	Date: 4/21/16	Time: 1330	Received by: [signature]	Date: 4/22/16	Time: 1030
Relinquished by: [signature] TO FED EX	Date: 4/22/16	Time: 1452	Received by: [signature]	Date: 4/25/16	Time: 0638

[redacted]

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Carlos (Vista) / Wallace S.
	Project Location: Aliso Canyon	Date: 4-20-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
CB-CD-6 *Δ	100cm²	charcoal wipe	Main office top Central - cabinet below comm. box	NIOSH 1500/1501
CB-GH-6	"	ghost wipe	" " " "	NIOSH 7300
CB-CD-7 *Δ	"	charcoal wipe	Classroom K3 Central - cubby top	NIOSH 1500/1501
CB-GH-7	"	ghost wipe	" " " "	NIOSH 7300
CB-CD-8 *Δ	"	charcoal wipe	Classroom #7 N. facing window sill	NIOSH 1500/1501
CB-GH-8	"	ghost wipe	" " " "	NIOSH 7300
CB-CD-9 ¥	"	charcoal wipe	Classroom #13 N. facing window sill	NIOSH 1500/1501
CB-GH-9	"	ghost wipe	" " " "	NIOSH 7300
CB-CD-10 *Δ	"	charcoal wipe	Library Top of pony wall - N-NE @ reading area	NIOSH 1500/1501
CB-GH-10	"	ghost wipe	" " " "	NIOSH 7300

Nicole Tormey, Environment, Health & Safety Client Service Representative
SGS Galson
16 Technology Dr, Suite 132
Irvine CA, 92618
Phone: +1 315 432 5227 (Client Services)
E-mail: Nicole.Tormey@sgs.com

METALS– ghost wipes
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk
NIOSH 1500/1501

Relinquished by: Carlos Segovia	Date: 4/20/16	Time: 19??	Received by: [signature]	Date: 4/20/16	Time: 14:30
Relinquished by: [signature]	Date: 4/21/16	Time: 1930	Received by: [signature]	Date: 4/22/16	Time: 1030
Relinquished by: FedEx Worldwide	Date: 4/22/16	Time: 1315	Received by: [signature]	Date: 4/25/16	Time: 0938

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Carlos (Vista) / Wallaces
	Project Location: Aliso Canyon	Date: 4-20-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
CB-CE-1DB	100 cm²	Gauze wipe	Blank — MDL - submitted to Calscience	MDL 8270 SVOCs
CB-CD-1DB *	100 cm²	Charcoal wipe	Blank	NIOSH 1500/1501
CB-CH-1DB	100 cm²	Ghost wipe	Blank	NIOSH 7300
			Charcoal + Ghost Wipe Samples (Blank) - Not submitted to Eurofins Calscience submitted to SGS	

Nicole Scott, Project Manager, Eurofins Calscience, Inc.
7440 Lincoln Way, Garden Grove, CA 92841
Phone: +1 714 895 5494
Cell +1 714 251 0417
Email: NicoleScott@eurofinsUS.com

SVOCs – gauze wipes/DI Water – glass jars
SVOCs, 8270

Note: Quantify TIC; Report to MDL, J-flag

Relinquished by: Wallace Sanders	Date: 4-21-16	Time: 1950	Received by: Meredith Church	Date: 4/21/16	Time: 9:30
Relinquished by: Meredith Church	Date: 4/21/16	Time: 1535	Received by: [illegible]	Date: 4/21/16	Time: 1535
Relinquished by: Meredith Church	Date: 4/21/16	Time: 1536	Received by: [illegible]	Date: 4/22/16	Time: 103

For samples submitted to Calscience [illegible]

To Fed Ex 4/22/16 1520

4/25/16 0938

Air Samples – Volatile Organic Compounds (VOCs)

Leighton

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

LABORATORY REPORT

April 1, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 31, 2016. For your reference, these analyses have been assigned our service request number P1601664.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 3:31 pm, Apr 01, 2016

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601664
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 31, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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Simi Valley, CA 93065
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F: +1 805 526 7270
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601664

Project ID: Aliso Canyon / 603287048

Date Received: 3/31/2016

Time Received: 09:30

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
54-SU	P1601664-001	Air	3/29/2016	08:40	CC00140	-6.63	3.65	X
22-SU	P1601664-002	Air	3/29/2016	10:14	CC00101	-6.30	3.66	X
30-SU	P1601664-003	Air	3/29/2016	12:41	CC00110	-5.90	3.58	X

P1664 1664

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: Calibrated Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	Avg:						
54-SU	Entech # 10071 Summa	TO-15	NA	NA	901	0840			Dining Room Table pressure 0.29 end -12
~~43-SU~~ 86	~~Summa~~ VOID	~~TO-15~~ VOID	Avg:		1015				
			VOID	VOID	VOID	Modified		VOID	~~dining room -no flow~~ 0.29
22-SU	Summa Entech SN # 581	TO-15			1041	1014			dining room ~~table~~ - 0.28 end -12
~~22-SU~~ 30-SU	Entech SN 713 Summa	TO-15	Avg:		1305	1241			NW 2nd floor bedroom - 0.28 end -11

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

ALS Life Sciences Division | Environmental
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Relinquished by:	Date: 3/30/16	Time: 1724	Received by: Meredith	Date: 3/30/16	Time: 17:24
Relinquished by:	Date: 3/31/16	Time: 930	Received by:	Date: 3/31/16	Time: 0938
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601664

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/31/16 Date opened: 3/31/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601664-001.01	Canister					
P1601664-002.01	Canister					
P1601664-003.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P1601664-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00140

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.63 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**3.3**	1.1	**1.9**	0.66	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.1	**0.42**	0.23	
74-87-3	Chloromethane	ND	0.45	ND	0.22	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	ND	0.16	
75-01-4	Vinyl Chloride	ND	0.23	ND	0.089	
106-99-0	1,3-Butadiene	ND	0.45	ND	0.21	
74-83-9	Bromomethane	ND	0.45	ND	0.12	
75-00-3	Chloroethane	ND	0.45	ND	0.17	
64-17-5	Ethanol	ND	11	ND	6.0	
75-05-8	Acetonitrile	ND	1.1	ND	0.68	
107-02-8	Acrolein	ND	4.5	ND	2.0	
67-64-1	Acetone	ND	11	ND	4.8	
75-69-4	Trichlorofluoromethane	**1.1**	0.23	**0.19**	0.040	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	11	ND	4.6	
107-13-1	Acrylonitrile	ND	1.1	ND	0.52	
75-35-4	1,1-Dichloroethene	ND	0.23	ND	0.057	
75-09-2	Methylene Chloride	**28**	1.1	**8.0**	0.33	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	ND	0.073	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.23	**0.064**	0.030	
75-15-0	Carbon Disulfide	ND	11	ND	3.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	ND	0.057	
75-34-3	1,1-Dichloroethane	ND	0.23	ND	0.056	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	ND	0.063	
108-05-4	Vinyl Acetate	ND	11	ND	3.2	
78-93-3	2-Butanone (MEK)	ND	11	ND	3.8	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00140

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.63 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	ND	0.057	
141-78-6	Ethyl Acetate	ND	2.3	ND	0.63	
110-54-3	n-Hexane	ND	1.1	ND	0.32	
67-66-3	Chloroform	ND	0.23	ND	0.047	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	ND	0.38	
107-06-2	1,2-Dichloroethane	ND	0.23	ND	0.056	
71-55-6	1,1,1-Trichloroethane	ND	0.23	ND	0.042	
71-43-2	Benzene	**0.30**	0.23	**0.095**	0.071	
56-23-5	Carbon Tetrachloride	**0.45**	0.23	**0.072**	0.036	
110-82-7	Cyclohexane	ND	2.3	ND	0.66	
78-87-5	1,2-Dichloropropane	ND	0.23	ND	0.049	
75-27-4	Bromodichloromethane	ND	0.23	ND	0.034	
79-01-6	Trichloroethene	ND	0.23	ND	0.042	
123-91-1	1,4-Dioxane	ND	1.1	ND	0.32	
80-62-6	Methyl Methacrylate	ND	2.3	ND	0.55	
142-82-5	n-Heptane	ND	1.1	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ND	0.25	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.28	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ND	0.25	
79-00-5	1,1,2-Trichloroethane	ND	0.23	ND	0.042	
108-88-3	Toluene	ND	1.1	ND	0.30	
591-78-6	2-Hexanone	ND	1.1	ND	0.28	
124-48-1	Dibromochloromethane	ND	0.23	ND	0.027	
106-93-4	1,2-Dibromoethane	ND	0.23	ND	0.030	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.24	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00140

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.63 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	ND	0.24	
127-18-4	Tetrachloroethene	**0.40**	0.23	**0.059**	0.033	
108-90-7	Chlorobenzene	ND	0.23	ND	0.049	
100-41-4	Ethylbenzene	ND	1.1	ND	0.26	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.26	
75-25-2	Bromoform	ND	1.1	ND	0.11	
100-42-5	Styrene	ND	1.1	ND	0.27	
95-47-6	o-Xylene	ND	1.1	ND	0.26	
111-84-2	n-Nonane	ND	1.1	ND	0.22	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	ND	0.033	
98-82-8	Cumene	ND	1.1	ND	0.23	
80-56-8	alpha-Pinene	ND	1.1	ND	0.20	
103-65-1	n-Propylbenzene	ND	1.1	ND	0.23	
622-96-8	4-Ethyltoluene	ND	1.1	ND	0.23	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ND	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ND	0.23	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	0.23	ND	0.038	
106-46-7	1,4-Dichlorobenzene	ND	0.23	ND	0.038	
95-50-1	1,2-Dichlorobenzene	ND	0.23	ND	0.038	
5989-27-5	d-Limonene	ND	1.1	ND	0.20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.12	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	1.1	ND	0.22	
87-68-3	Hexachlorobutadiene	ND	1.1	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P1601664-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00101

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.30 Final Pressure (psig): 3.66

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**2.6**	1.1	**1.5**	0.64	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.1	**0.43**	0.22	
74-87-3	Chloromethane	**0.55**	0.44	**0.27**	0.21	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	ND	0.16	
75-01-4	Vinyl Chloride	ND	0.22	ND	0.086	
106-99-0	1,3-Butadiene	ND	0.44	ND	0.20	
74-83-9	Bromomethane	ND	0.44	ND	0.11	
75-00-3	Chloroethane	ND	0.44	ND	0.17	
64-17-5	Ethanol	**380**	11	**200**	5.8	
75-05-8	Acetonitrile	ND	1.1	ND	0.65	
107-02-8	Acrolein	ND	4.4	ND	1.9	
67-64-1	Acetone	**23**	11	**9.8**	4.6	
75-69-4	Trichlorofluoromethane	**1.1**	0.22	**0.20**	0.039	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	11	ND	4.5	
107-13-1	Acrylonitrile	ND	1.1	ND	0.50	
75-35-4	1,1-Dichloroethene	ND	0.22	ND	0.055	
75-09-2	Methylene Chloride	**53**	1.1	**15**	0.32	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	ND	0.070	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.22	**0.066**	0.029	
75-15-0	Carbon Disulfide	ND	11	ND	3.5	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	ND	0.055	
75-34-3	1,1-Dichloroethane	ND	0.22	ND	0.054	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	ND	0.061	
108-05-4	Vinyl Acetate	ND	11	ND	3.1	
78-93-3	2-Butanone (MEK)	ND	11	ND	3.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00101

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.30 Final Pressure (psig): 3.66

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	ND	0.055	
141-78-6	Ethyl Acetate	ND	2.2	ND	0.61	
110-54-3	n-Hexane	ND	1.1	ND	0.31	
67-66-3	Chloroform	**0.62**	0.22	**0.13**	0.045	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	ND	0.37	
107-06-2	1,2-Dichloroethane	ND	0.22	ND	0.054	
71-55-6	1,1,1-Trichloroethane	ND	0.22	ND	0.040	
71-43-2	Benzene	**0.55**	0.22	**0.17**	0.069	
56-23-5	Carbon Tetrachloride	**0.54**	0.22	**0.086**	0.035	
110-82-7	Cyclohexane	ND	2.2	ND	0.64	
78-87-5	1,2-Dichloropropane	ND	0.22	ND	0.047	
75-27-4	Bromodichloromethane	ND	0.22	ND	0.033	
79-01-6	Trichloroethene	ND	0.22	ND	0.041	
123-91-1	1,4-Dioxane	ND	1.1	ND	0.30	
80-62-6	Methyl Methacrylate	ND	2.2	ND	0.54	
142-82-5	n-Heptane	**6.2**	1.1	**1.5**	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ND	0.24	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	0.22	ND	0.040	
108-88-3	Toluene	ND	1.1	ND	0.29	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.22	ND	0.026	
106-93-4	1,2-Dibromoethane	ND	0.22	ND	0.029	
123-86-4	n-Butyl Acetate	**1.1**	1.1	**0.24**	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P1601664-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00101

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.30 Final Pressure (psig): 3.66

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	**6.1**	1.1	**1.3**	0.23	
127-18-4	Tetrachloroethene	ND	0.22	ND	0.032	
108-90-7	Chlorobenzene	ND	0.22	ND	0.048	
100-41-4	Ethylbenzene	ND	1.1	ND	0.25	
179601-23-1	m,p-Xylenes	**1.7**	1.1	**0.39**	0.25	
75-25-2	Bromoform	ND	1.1	ND	0.11	
100-42-5	Styrene	ND	1.1	ND	0.26	
95-47-6	o-Xylene	ND	1.1	ND	0.25	
111-84-2	n-Nonane	**2.7**	1.1	**0.52**	0.21	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	ND	0.032	
98-82-8	Cumene	ND	1.1	ND	0.22	
80-56-8	alpha-Pinene	**1.9**	1.1	**0.33**	0.20	
103-65-1	n-Propylbenzene	ND	1.1	ND	0.22	
622-96-8	4-Ethyltoluene	ND	1.1	ND	0.22	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ND	0.22	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ND	0.22	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.22	ND	0.036	
106-46-7	1,4-Dichlorobenzene	**1.2**	0.22	**0.20**	0.036	
95-50-1	1,2-Dichlorobenzene	ND	0.22	ND	0.036	
5989-27-5	d-Limonene	**37**	1.1	**6.7**	0.20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	1.1	ND	0.21	
87-68-3	Hexachlorobutadiene	ND	1.1	ND	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P1601664-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00110

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.90 Final Pressure (psig): 3.58

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**3.2**	1.0	**1.8**	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.0	**0.44**	0.21	
74-87-3	Chloromethane	**0.45**	0.42	**0.22**	0.20	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	ND	0.15	
75-01-4	Vinyl Chloride	ND	0.21	ND	0.081	
106-99-0	1,3-Butadiene	ND	0.42	ND	0.19	
74-83-9	Bromomethane	ND	0.42	ND	0.11	
75-00-3	Chloroethane	ND	0.42	ND	0.16	
64-17-5	Ethanol	ND	10	ND	5.5	
75-05-8	Acetonitrile	ND	1.0	ND	0.62	
107-02-8	Acrolein	ND	4.2	ND	1.8	
67-64-1	Acetone	ND	10	ND	4.4	
75-69-4	Trichlorofluoromethane	**1.2**	0.21	**0.21**	0.037	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	10	ND	4.2	
107-13-1	Acrylonitrile	ND	1.0	ND	0.48	
75-35-4	1,1-Dichloroethene	ND	0.21	ND	0.052	
75-09-2	Methylene Chloride	**61**	1.0	**18**	0.30	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	ND	0.066	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.21	**0.068**	0.027	
75-15-0	Carbon Disulfide	ND	10	ND	3.3	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	ND	0.052	
75-34-3	1,1-Dichloroethane	ND	0.21	ND	0.051	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	ND	0.058	
108-05-4	Vinyl Acetate	ND	10	ND	3.0	
78-93-3	2-Butanone (MEK)	ND	10	ND	3.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00110

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.90 Final Pressure (psig): 3.58

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	ND	0.052	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	1.0	ND	0.30	
67-66-3	Chloroform	**0.25**	0.21	**0.051**	0.043	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.35	
107-06-2	1,2-Dichloroethane	ND	0.21	ND	0.051	
71-55-6	1,1,1-Trichloroethane	**0.34**	0.21	**0.062**	0.038	
71-43-2	Benzene	**0.39**	0.21	**0.12**	0.065	
56-23-5	Carbon Tetrachloride	**0.50**	0.21	**0.079**	0.033	
110-82-7	Cyclohexane	ND	2.1	ND	0.60	
78-87-5	1,2-Dichloropropane	ND	0.21	ND	0.045	
75-27-4	Bromodichloromethane	ND	0.21	ND	0.031	
79-01-6	Trichloroethene	ND	0.21	ND	0.039	
123-91-1	1,4-Dioxane	ND	1.0	ND	0.29	
80-62-6	Methyl Methacrylate	ND	2.1	ND	0.51	
142-82-5	n-Heptane	ND	1.0	ND	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.23	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.25	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.23	
79-00-5	1,1,2-Trichloroethane	ND	0.21	ND	0.038	
108-88-3	Toluene	ND	1.0	ND	0.28	
591-78-6	2-Hexanone	ND	1.0	ND	0.25	
124-48-1	Dibromochloromethane	ND	0.21	ND	0.024	
106-93-4	1,2-Dibromoethane	ND	0.21	ND	0.027	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00110

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.90 Final Pressure (psig): 3.58

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	ND	0.22	
127-18-4	Tetrachloroethene	**0.97**	0.21	**0.14**	0.031	
108-90-7	Chlorobenzene	ND	0.21	ND	0.045	
100-41-4	Ethylbenzene	ND	1.0	ND	0.24	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.24	
75-25-2	Bromoform	ND	1.0	ND	0.10	
100-42-5	Styrene	ND	1.0	ND	0.24	
95-47-6	o-Xylene	ND	1.0	ND	0.24	
111-84-2	n-Nonane	ND	1.0	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	ND	0.030	
98-82-8	Cumene	ND	1.0	ND	0.21	
80-56-8	alpha-Pinene	ND	1.0	ND	0.19	
103-65-1	n-Propylbenzene	ND	1.0	ND	0.21	
622-96-8	4-Ethyltoluene	ND	1.0	ND	0.21	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ND	0.21	
100-44-7	Benzyl Chloride	ND	1.0	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	0.21	ND	0.035	
106-46-7	1,4-Dichlorobenzene	ND	0.21	ND	0.035	
95-50-1	1,2-Dichlorobenzene	ND	0.21	ND	0.035	
5989-27-5	d-Limonene	**5.0**	1.0	**0.89**	0.19	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.14	
91-20-3	Naphthalene	ND	1.0	ND	0.20	
87-68-3	Hexachlorobutadiene	ND	1.0	ND	0.098	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P160331-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P160331-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P160331-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601664

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/29/16
Analyst: Wida Ang Date(s) Received: 3/31/16
Sample Type: Canister(s) Date(s) Analyzed: 3/31/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160331-MB	**100**	**101**	**101**	70-130	
	P160331-LCS	**98**	**98**	**101**	70-130	
	P1601664-001	**100**	**98**	**103**	70-130	
	P1601664-002	**100**	**97**	**103**	70-130	
	P1601664-003	**100**	**98**	**104**	70-130	
	P1601664-003DUP	**100**	**98**	**103**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P160331-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**167**	**85**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**166**	**88**	65-117	
74-87-3	Chloromethane	200	**194**	**97**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**177**	**87**	65-122	
75-01-4	Vinyl Chloride	200	**197**	**99**	65-128	
106-99-0	1,3-Butadiene	206	**223**	**108**	62-143	
74-83-9	Bromomethane	202	**198**	**98**	65-130	
75-00-3	Chloroethane	200	**187**	**94**	69-126	
64-17-5	Ethanol	998	**859**	**86**	57-126	
75-05-8	Acetonitrile	212	**178**	**84**	51-134	
107-02-8	Acrolein	214	**193**	**90**	55-146	
67-64-1	Acetone	1,080	**875**	**81**	57-120	
75-69-4	Trichlorofluoromethane	216	**168**	**78**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**384**	**92**	59-129	
107-13-1	Acrylonitrile	212	**207**	**98**	64-136	
75-35-4	1,1-Dichloroethene	216	**206**	**95**	72-123	
75-09-2	Methylene Chloride	222	**183**	**82**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**224**	**103**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**195**	**89**	68-118	
75-15-0	Carbon Disulfide	210	**155**	**74**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**205**	**98**	69-129	
75-34-3	1,1-Dichloroethane	212	**187**	**88**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**193**	**89**	55-128	
108-05-4	Vinyl Acetate	1,040	**1080**	**104**	66-140	
78-93-3	2-Butanone (MEK)	220	**165**	**75**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P160331-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**206**	**94**	65-125	
141-78-6	Ethyl Acetate	428	**406**	**95**	64-132	
110-54-3	n-Hexane	212	**156**	**74**	58-126	
67-66-3	Chloroform	224	**195**	**87**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**208**	**95**	64-123	
107-06-2	1,2-Dichloroethane	214	**191**	**89**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**198**	**94**	68-120	
71-43-2	Benzene	226	**190**	**84**	61-110	
56-23-5	Carbon Tetrachloride	230	**210**	**91**	65-137	
110-82-7	Cyclohexane	424	**372**	**88**	68-122	
78-87-5	1,2-Dichloropropane	216	**196**	**91**	67-122	
75-27-4	Bromodichloromethane	218	**213**	**98**	71-124	
79-01-6	Trichloroethene	216	**188**	**87**	71-121	
123-91-1	1,4-Dioxane	210	**224**	**107**	67-122	
80-62-6	Methyl Methacrylate	422	**396**	**94**	76-130	
142-82-5	n-Heptane	216	**184**	**85**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**203**	**98**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**213**	**97**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**212**	**101**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**205**	**95**	73-121	
108-88-3	Toluene	218	**162**	**74**	67-117	
591-78-6	2-Hexanone	220	**214**	**97**	59-128	
124-48-1	Dibromochloromethane	220	**228**	**104**	73-132	
106-93-4	1,2-Dibromoethane	218	**215**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**231**	**102**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664
ALS Sample ID: P160331-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**187**	**89**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**198**	**90**	68-120	
100-41-4	Ethylbenzene	218	**200**	**92**	69-123	
179601-23-1	m,p-Xylenes	428	**387**	**90**	67-125	
75-25-2	Bromoform	228	**229**	**100**	68-153	
100-42-5	Styrene	222	**222**	**100**	68-132	
95-47-6	o-Xylene	210	**192**	**91**	67-124	
111-84-2	n-Nonane	204	**189**	**93**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**202**	**96**	72-128	
98-82-8	Cumene	208	**189**	**91**	67-124	
80-56-8	alpha-Pinene	212	**197**	**93**	67-129	
103-65-1	n-Propylbenzene	204	**189**	**93**	67-125	
622-96-8	4-Ethyltoluene	214	**195**	**91**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**196**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**202**	**93**	62-134	
100-44-7	Benzyl Chloride	220	**247**	**112**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**208**	**91**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**197**	**95**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**206**	**94**	62-134	
5989-27-5	d-Limonene	210	**205**	**98**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**225**	**103**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**203**	**88**	60-145	
91-20-3	Naphthalene	218	**193**	**89**	56-158	
87-68-3	Hexachlorobutadiene	230	**197**	**86**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-003DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00110

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.90 Final Pressure (psig): 3.58

Canister Dilution Factor: 2.08

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Propene	3.15	1.83	3.15	1.83	3.15	**0**	25	
Dichlorodifluoromethane (CFC 12)	2.19	0.443	2.16	0.436	2.175	**1**	25	
Chloromethane	0.451	0.219	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	ND	-	-	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	ND	-	-	25	
Trichlorofluoromethane	1.16	0.207	1.14	0.203	1.15	**2**	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	61.2	17.6	60.7	17.5	60.95	**0.8**	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.518	0.0676	0.535	0.0698	0.5265	**3**	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-003DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00110

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.90 Final Pressure (psig): 3.58

Canister Dilution Factor: 2.08

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	0.250	0.0511	0.233	0.0477	0.2415	**7**	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	0.337	0.0618	0.324	0.0595	0.3305	**4**	25	
Benzene	0.387	0.121	0.387	0.121	0.387	**0**	25	
Carbon Tetrachloride	0.495	0.0787	0.466	0.0741	0.4805	**6**	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	ND	ND	ND	ND	-	-	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601664

ALS Sample ID: P1601664-003DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00110

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.90 Final Pressure (psig): 3.58

Canister Dilution Factor: 2.08

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.971	0.143	0.948	0.140	0.9595	**2**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	4.98	0.893	4.88	0.876	4.93	**2**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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LABORATORY REPORT

April 4, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 31, 2016. For your reference, these analyses have been assigned our service request number P1601665.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601665
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 31, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601665
Project ID: Aliso Canyon / 603287048

Date Received: 3/31/2016
Time Received: 09:30

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601665-001	Air	3/29/2016	12:41	CC00102	-5.88	3.64	X
	P1601665-002	Air	3/29/2016	14:54	CC00108	-5.03	3.65	X
	P1601665-003	Air	3/29/2016	14:58	CC00138	-0.21	3.74	X
	P1601665-004	Air	3/29/2016	15:29	CC00104	-5.47	3.59	X
	P1601665-005	Air	3/29/2016	14:58	CC00119	-0.40	3.88	X

P160/1665

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: Calibrated Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
(1) Entech SN 718 30-SU-D	Summa	TO-15			1306	1241			NW 2nd-floor bedroom -0.28 end -11
			Avg:						
(2) 65-SU	Entech 11 SN 3742	11			1512	1454			dining room table -0.28 end -9
			Avg:						
(3) 65-SU-EXT = GV	Entech SN 11 [redacted]4294	11			1631 1529	1529 1458	FLOW CONTROLLER TO CAN CONNECTION FOUND LOOSE		patio table end -0
			Avg:						
(4) 92-SU	Entech SN 3726/11	11			1602	1729			Grab Sample has leak fireplace front -11
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date: 3/30/16	Time: 1724	Received by:	Date: 3/30/16	Time: 17:24
Relinquished by:	Date: 3/31/16	Time: 930	Received by:	Date: 3/31/16	Time: 0930
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

p166/166

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date:
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist:
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
76-SU-G	Air Toxics #1149 Summa (6L)	TO-15			1705	1458			-0.26 end - 0 Dining Room, Middle of Room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date: 3/30/16	Time: 1954	Received by: Mendilla	Date: 3/30/16	Time: 17:24
Relinquished by:	Date: 3/31/16	Time: 930	Received by:	Date: 3/31/16	Time: 0930
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601665

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/31/16 Date opened: 3/31/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601665-001.01	Canister					
P1601665-002.01	Canister					
P1601665-003.01	Canister					
P1601665-004.01	Canister					
P1601665-005.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00102

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.88 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**2.3**	1.0	**1.3**	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.0	**0.39**	0.21	
74-87-3	Chloromethane	**0.62**	0.42	**0.30**	0.20	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	ND	0.15	
75-01-4	Vinyl Chloride	ND	0.21	ND	0.081	
106-99-0	1,3-Butadiene	ND	0.42	ND	0.19	
74-83-9	Bromomethane	ND	0.42	ND	0.11	
75-00-3	Chloroethane	ND	0.42	ND	0.16	
64-17-5	Ethanol	ND	10	ND	5.5	
75-05-8	Acetonitrile	ND	1.0	ND	0.62	
107-02-8	Acrolein	ND	4.2	ND	1.8	
67-64-1	Acetone	ND	10	ND	4.4	
75-69-4	Trichlorofluoromethane	**1.0**	0.21	**0.18**	0.037	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	10	ND	4.2	
107-13-1	Acrylonitrile	ND	1.0	ND	0.48	
75-35-4	1,1-Dichloroethene	ND	0.21	ND	0.052	
75-09-2	Methylene Chloride	**63**	1.0	**18**	0.30	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	ND	0.066	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.21	**0.059**	0.027	
75-15-0	Carbon Disulfide	ND	10	ND	3.3	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	ND	0.052	
75-34-3	1,1-Dichloroethane	ND	0.21	ND	0.051	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	ND	0.058	
108-05-4	Vinyl Acetate	ND	10	ND	3.0	
78-93-3	2-Butanone (MEK)	ND	10	ND	3.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00102

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.88 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	ND	0.052	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	1.0	ND	0.30	
67-66-3	Chloroform	**0.22**	0.21	**0.045**	0.043	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.35	
107-06-2	1,2-Dichloroethane	ND	0.21	ND	0.051	
71-55-6	1,1,1-Trichloroethane	**0.39**	0.21	**0.072**	0.038	
71-43-2	Benzene	**0.37**	0.21	**0.12**	0.065	
56-23-5	Carbon Tetrachloride	**0.38**	0.21	**0.061**	0.033	
110-82-7	Cyclohexane	ND	2.1	ND	0.60	
78-87-5	1,2-Dichloropropane	ND	0.21	ND	0.045	
75-27-4	Bromodichloromethane	ND	0.21	ND	0.031	
79-01-6	Trichloroethene	ND	0.21	ND	0.039	
123-91-1	1,4-Dioxane	ND	1.0	ND	0.29	
80-62-6	Methyl Methacrylate	ND	2.1	ND	0.51	
142-82-5	n-Heptane	ND	1.0	ND	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.23	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.25	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.23	
79-00-5	1,1,2-Trichloroethane	ND	0.21	ND	0.038	
108-88-3	Toluene	ND	1.0	ND	0.28	
591-78-6	2-Hexanone	ND	1.0	ND	0.25	
124-48-1	Dibromochloromethane	ND	0.21	ND	0.024	
106-93-4	1,2-Dibromoethane	ND	0.21	ND	0.027	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00102

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.88 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	ND	0.22	
127-18-4	Tetrachloroethene	**0.93**	0.21	**0.14**	0.031	
108-90-7	Chlorobenzene	ND	0.21	ND	0.045	
100-41-4	Ethylbenzene	ND	1.0	ND	0.24	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.24	
75-25-2	Bromoform	ND	1.0	ND	0.10	
100-42-5	Styrene	ND	1.0	ND	0.24	
95-47-6	o-Xylene	ND	1.0	ND	0.24	
111-84-2	n-Nonane	ND	1.0	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	ND	0.030	
98-82-8	Cumene	ND	1.0	ND	0.21	
80-56-8	alpha-Pinene	ND	1.0	ND	0.19	
103-65-1	n-Propylbenzene	ND	1.0	ND	0.21	
622-96-8	4-Ethyltoluene	ND	1.0	ND	0.21	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ND	0.21	
100-44-7	Benzyl Chloride	ND	1.0	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	0.21	ND	0.035	
106-46-7	1,4-Dichlorobenzene	ND	0.21	ND	0.035	
95-50-1	1,2-Dichlorobenzene	ND	0.21	ND	0.035	
5989-27-5	d-Limonene	**4.3**	1.0	**0.78**	0.19	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.14	
91-20-3	Naphthalene	ND	1.0	ND	0.20	
87-68-3	Hexachlorobutadiene	ND	1.0	ND	0.098	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00108

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.90

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**1.5**	0.95	**0.89**	0.55	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.95	**0.41**	0.19	
74-87-3	Chloromethane	**0.69**	0.38	**0.33**	0.18	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.95	ND	0.14	
75-01-4	Vinyl Chloride	ND	0.19	ND	0.074	
106-99-0	1,3-Butadiene	ND	0.38	ND	0.17	
74-83-9	Bromomethane	ND	0.38	ND	0.098	
75-00-3	Chloroethane	ND	0.38	ND	0.14	
64-17-5	Ethanol	**380**	9.5	**200**	5.0	
75-05-8	Acetonitrile	ND	0.95	ND	0.57	
107-02-8	Acrolein	ND	3.8	ND	1.7	
67-64-1	Acetone	**14**	9.5	**5.7**	4.0	
75-69-4	Trichlorofluoromethane	**1.0**	0.19	**0.18**	0.034	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.5	ND	3.9	
107-13-1	Acrylonitrile	ND	0.95	ND	0.44	
75-35-4	1,1-Dichloroethene	ND	0.19	ND	0.048	
75-09-2	Methylene Chloride	**24**	0.95	**7.0**	0.27	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	ND	0.061	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.19	**0.066**	0.025	
75-15-0	Carbon Disulfide	ND	9.5	ND	3.1	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	ND	0.048	
75-34-3	1,1-Dichloroethane	ND	0.19	ND	0.047	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	ND	0.053	
108-05-4	Vinyl Acetate	ND	9.5	ND	2.7	
78-93-3	2-Butanone (MEK)	ND	9.5	ND	3.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00108

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.90

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	ND	0.048	
141-78-6	Ethyl Acetate	ND	1.9	ND	0.53	
110-54-3	n-Hexane	ND	0.95	ND	0.27	
67-66-3	Chloroform	ND	0.19	ND	0.039	
109-99-9	Tetrahydrofuran (THF)	ND	0.95	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	0.19	ND	0.047	
71-55-6	1,1,1-Trichloroethane	ND	0.19	ND	0.035	
71-43-2	Benzene	**0.39**	0.19	**0.12**	0.059	
56-23-5	Carbon Tetrachloride	**0.43**	0.19	**0.068**	0.030	
110-82-7	Cyclohexane	ND	1.9	ND	0.55	
78-87-5	1,2-Dichloropropane	ND	0.19	ND	0.041	
75-27-4	Bromodichloromethane	ND	0.19	ND	0.028	
79-01-6	Trichloroethene	ND	0.19	ND	0.035	
123-91-1	1,4-Dioxane	ND	0.95	ND	0.26	
80-62-6	Methyl Methacrylate	ND	1.9	ND	0.46	
142-82-5	n-Heptane	ND	0.95	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	0.95	ND	0.21	
108-10-1	4-Methyl-2-pentanone	ND	0.95	ND	0.23	
10061-02-6	trans-1,3-Dichloropropene	ND	0.95	ND	0.21	
79-00-5	1,1,2-Trichloroethane	ND	0.19	ND	0.035	
108-88-3	Toluene	**1.1**	0.95	**0.30**	0.25	
591-78-6	2-Hexanone	ND	0.95	ND	0.23	
124-48-1	Dibromochloromethane	ND	0.19	ND	0.022	
106-93-4	1,2-Dibromoethane	ND	0.19	ND	0.025	
123-86-4	n-Butyl Acetate	ND	0.95	ND	0.20	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00108

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.90

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.95	ND	0.20	
127-18-4	Tetrachloroethene	ND	0.19	ND	0.028	
108-90-7	Chlorobenzene	ND	0.19	ND	0.041	
100-41-4	Ethylbenzene	ND	0.95	ND	0.22	
179601-23-1	m,p-Xylenes	ND	0.95	ND	0.22	
75-25-2	Bromoform	ND	0.95	ND	0.092	
100-42-5	Styrene	ND	0.95	ND	0.22	
95-47-6	o-Xylene	ND	0.95	ND	0.22	
111-84-2	n-Nonane	**1.5**	0.95	**0.28**	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	ND	0.028	
98-82-8	Cumene	ND	0.95	ND	0.19	
80-56-8	alpha-Pinene	ND	0.95	ND	0.17	
103-65-1	n-Propylbenzene	ND	0.95	ND	0.19	
622-96-8	4-Ethyltoluene	ND	0.95	ND	0.19	
108-67-8	1,3,5-Trimethylbenzene	ND	0.95	ND	0.19	
95-63-6	1,2,4-Trimethylbenzene	ND	0.95	ND	0.19	
100-44-7	Benzyl Chloride	ND	0.95	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	0.19	ND	0.032	
106-46-7	1,4-Dichlorobenzene	ND	0.19	ND	0.032	
95-50-1	1,2-Dichlorobenzene	ND	0.19	ND	0.032	
5989-27-5	d-Limonene	**1.3**	0.95	**0.23**	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.95	ND	0.098	
120-82-1	1,2,4-Trichlorobenzene	ND	0.95	ND	0.13	
91-20-3	Naphthalene	ND	0.95	ND	0.18	
87-68-3	Hexachlorobutadiene	ND	0.95	ND	0.089	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/29/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	3/31/16
Analyst:	Evelyn Alvarez	Date Analyzed:	3/31/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00108		

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.90

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
21.98	Unidentifeid Siloxane	**78**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00138

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.64	ND	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.64	**0.43**	0.13	
74-87-3	Chloromethane	**0.69**	0.25	**0.33**	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.091	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.050	
106-99-0	1,3-Butadiene	ND	0.25	ND	0.11	
74-83-9	Bromomethane	ND	0.25	ND	0.065	
75-00-3	Chloroethane	ND	0.25	ND	0.096	
64-17-5	Ethanol	ND	6.4	ND	3.4	
75-05-8	Acetonitrile	ND	0.64	ND	0.38	
107-02-8	Acrolein	ND	2.5	ND	1.1	
67-64-1	Acetone	ND	6.4	ND	2.7	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	**0.19**	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	6.4	ND	2.6	
107-13-1	Acrylonitrile	ND	0.64	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	**4.8**	0.64	**1.4**	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.041	
76-13-1	Trichlorotrifluoroethane	**0.54**	0.13	**0.070**	0.017	
75-15-0	Carbon Disulfide	ND	6.4	ND	2.0	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.4	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	6.4	ND	2.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00138

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	ND	1.3	ND	0.35	
110-54-3	n-Hexane	ND	0.64	ND	0.18	
67-66-3	Chloroform	ND	0.13	ND	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.64	ND	0.22	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	**0.23**	0.13	**0.073**	0.040	
56-23-5	Carbon Tetrachloride	**0.40**	0.13	**0.063**	0.020	
110-82-7	Cyclohexane	ND	1.3	ND	0.37	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.31	
142-82-5	n-Heptane	ND	0.64	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.64	ND	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	ND	0.64	ND	0.17	
591-78-6	2-Hexanone	ND	0.64	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	ND	0.64	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00138

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	ND	0.64	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.64	ND	0.15	
75-25-2	Bromoform	ND	0.64	ND	0.061	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	ND	0.64	ND	0.15	
111-84-2	n-Nonane	ND	0.64	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	ND	0.64	ND	0.11	
103-65-1	n-Propylbenzene	ND	0.64	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.64	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.64	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.64	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	ND	0.64	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	ND	0.066	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	ND	0.086	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00104

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.47 Final Pressure (psig): 3.59

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**1.7**	0.99	**1.0**	0.58	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.99	**0.41**	0.20	
74-87-3	Chloromethane	**0.65**	0.40	**0.31**	0.19	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.99	ND	0.14	
75-01-4	Vinyl Chloride	ND	0.20	ND	0.077	
106-99-0	1,3-Butadiene	ND	0.40	ND	0.18	
74-83-9	Bromomethane	ND	0.40	ND	0.10	
75-00-3	Chloroethane	ND	0.40	ND	0.15	
64-17-5	Ethanol	**150**	9.9	**81**	5.3	
75-05-8	Acetonitrile	ND	0.99	ND	0.59	
107-02-8	Acrolein	ND	4.0	ND	1.7	
67-64-1	Acetone	**15**	9.9	**6.1**	4.2	
75-69-4	Trichlorofluoromethane	**1.0**	0.20	**0.18**	0.035	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.9	ND	4.0	
107-13-1	Acrylonitrile	ND	0.99	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.20	ND	0.050	
75-09-2	Methylene Chloride	**32**	0.99	**9.2**	0.29	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	ND	0.063	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.20	**0.063**	0.026	
75-15-0	Carbon Disulfide	ND	9.9	ND	3.2	
156-60-5	trans-1,2-Dichloroethene	ND	0.20	ND	0.050	
75-34-3	1,1-Dichloroethane	ND	0.20	ND	0.049	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	ND	0.055	
108-05-4	Vinyl Acetate	ND	9.9	ND	2.8	
78-93-3	2-Butanone (MEK)	ND	9.9	ND	3.4	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00104

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.47 Final Pressure (psig): 3.59

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	ND	0.050	
141-78-6	Ethyl Acetate	ND	2.0	ND	0.55	
110-54-3	n-Hexane	ND	0.99	ND	0.28	
67-66-3	Chloroform	ND	0.20	ND	0.041	
109-99-9	Tetrahydrofuran (THF)	ND	0.99	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.20	ND	0.049	
71-55-6	1,1,1-Trichloroethane	ND	0.20	ND	0.036	
71-43-2	Benzene	**0.39**	0.20	**0.12**	0.062	
56-23-5	Carbon Tetrachloride	**0.37**	0.20	**0.059**	0.031	
110-82-7	Cyclohexane	ND	2.0	ND	0.58	
78-87-5	1,2-Dichloropropane	ND	0.20	ND	0.043	
75-27-4	Bromodichloromethane	ND	0.20	ND	0.030	
79-01-6	Trichloroethene	ND	0.20	ND	0.037	
123-91-1	1,4-Dioxane	ND	0.99	ND	0.27	
80-62-6	Methyl Methacrylate	ND	2.0	ND	0.48	
142-82-5	n-Heptane	ND	0.99	ND	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	0.99	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	0.99	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	0.99	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	0.20	ND	0.036	
108-88-3	Toluene	ND	0.99	ND	0.26	
591-78-6	2-Hexanone	ND	0.99	ND	0.24	
124-48-1	Dibromochloromethane	ND	0.20	ND	0.023	
106-93-4	1,2-Dibromoethane	ND	0.20	ND	0.026	
123-86-4	n-Butyl Acetate	ND	0.99	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00104

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.47 Final Pressure (psig): 3.59

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.99	ND	0.21	
127-18-4	Tetrachloroethene	ND	0.20	ND	0.029	
108-90-7	Chlorobenzene	ND	0.20	ND	0.043	
100-41-4	Ethylbenzene	ND	0.99	ND	0.23	
179601-23-1	m,p-Xylenes	ND	0.99	ND	0.23	
75-25-2	Bromoform	ND	0.99	ND	0.096	
100-42-5	Styrene	ND	0.99	ND	0.23	
95-47-6	o-Xylene	ND	0.99	ND	0.23	
111-84-2	n-Nonane	ND	0.99	ND	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ND	0.029	
98-82-8	Cumene	ND	0.99	ND	0.20	
80-56-8	alpha-Pinene	ND	0.99	ND	0.18	
103-65-1	n-Propylbenzene	ND	0.99	ND	0.20	
622-96-8	4-Ethyltoluene	ND	0.99	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	0.99	ND	0.20	
95-63-6	1,2,4-Trimethylbenzene	ND	0.99	ND	0.20	
100-44-7	Benzyl Chloride	ND	0.99	ND	0.19	
541-73-1	1,3-Dichlorobenzene	ND	0.20	ND	0.033	
106-46-7	1,4-Dichlorobenzene	ND	0.20	ND	0.033	
95-50-1	1,2-Dichlorobenzene	ND	0.20	ND	0.033	
5989-27-5	d-Limonene	**1.5**	0.99	**0.27**	0.18	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.99	ND	0.10	
120-82-1	1,2,4-Trichlorobenzene	ND	0.99	ND	0.13	
91-20-3	Naphthalene	ND	0.99	ND	0.19	
87-68-3	Hexachlorobutadiene	ND	0.99	ND	0.093	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00119

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31 - 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.40 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**24**	0.65	**14**	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.65	**0.42**	0.13	
74-87-3	Chloromethane	**0.70**	0.26	**0.34**	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.093	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.051	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	**200**	6.5	**110**	3.5	
75-05-8	Acetonitrile	ND	0.65	ND	0.39	
107-02-8	Acrolein	ND	2.6	ND	1.1	
67-64-1	Acetone	**30**	6.5	**13**	2.7	
75-69-4	Trichlorofluoromethane	**1.0**	0.13	**0.18**	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**41**	6.5	**17**	2.6	
107-13-1	Acrylonitrile	ND	0.65	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.033	
75-09-2	Methylene Chloride	**860**	6.5	**250**	1.9	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.042	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.13	**0.063**	0.017	
75-15-0	Carbon Disulfide	ND	6.5	ND	2.1	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.033	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.036	
108-05-4	Vinyl Acetate	ND	6.5	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	6.5	ND	2.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00119

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 3/31 - 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.40 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
141-78-6	Ethyl Acetate	**7.8**	1.3	**2.2**	0.36	
110-54-3	n-Hexane	ND	0.65	ND	0.18	
67-66-3	Chloroform	**1.8**	0.13	**0.36**	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	ND	0.22	
107-06-2	1,2-Dichloroethane	**0.35**	0.13	**0.085**	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	**0.96**	0.13	**0.30**	0.041	
56-23-5	Carbon Tetrachloride	**0.46**	0.13	**0.074**	0.021	
110-82-7	Cyclohexane	ND	1.3	ND	0.38	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.32	
142-82-5	n-Heptane	ND	0.65	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.65	ND	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	**1.4**	0.65	**0.38**	0.17	
591-78-6	2-Hexanone	ND	0.65	ND	0.16	
124-48-1	Dibromochloromethane	**0.16**	0.13	**0.018**	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	**1.8**	0.65	**0.38**	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00119

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31 - 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.40 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.65	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	ND	0.65	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.65	ND	0.15	
75-25-2	Bromoform	ND	0.65	ND	0.063	
100-42-5	Styrene	ND	0.65	ND	0.15	
95-47-6	o-Xylene	ND	0.65	ND	0.15	
111-84-2	n-Nonane	ND	0.65	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.65	ND	0.13	
80-56-8	alpha-Pinene	**1.6**	0.65	**0.29**	0.12	
103-65-1	n-Propylbenzene	ND	0.65	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.65	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.65	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.022	
106-46-7	1,4-Dichlorobenzene	**1.1**	0.13	**0.19**	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.022	
5989-27-5	d-Limonene	**24**	0.65	**4.4**	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	ND	0.067	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	ND	0.088	
91-20-3	Naphthalene	ND	0.65	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.65	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160331-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160331-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160331-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160331-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P160401-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601665

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 3/29/16
Analyst: Evelyn Alvarez Date(s) Received: 3/31/16
Sample Type: Canister(s) Date(s) Analyzed: 3/31 - 4/1/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160331-MB	**93**	**103**	**97**	70-130	
P160401-MB	**96**	**102**	**97**	70-130	
P160331-LCS	**92**	**100**	**99**	70-130	
P160401-LCS	**95**	**99**	**100**	70-130	
P1601665-001	**97**	**101**	**96**	70-130	
P1601665-001DUP	**97**	**101**	**96**	70-130	
P1601665-002	**99**	**99**	**97**	70-130	
P1601665-003	**98**	**99**	**95**	70-130	
P1601665-004	**98**	**100**	**95**	70-130	
P1601665-005	**98**	**99**	**94**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P160331-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**160**	**85**	65-117	
74-87-3	Chloromethane	200	**203**	**102**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**169**	**83**	65-122	
75-01-4	Vinyl Chloride	200	**181**	**91**	65-128	
106-99-0	1,3-Butadiene	206	**203**	**99**	62-143	
74-83-9	Bromomethane	202	**180**	**89**	65-130	
75-00-3	Chloroethane	200	**203**	**102**	69-126	
64-17-5	Ethanol	998	**983**	**98**	57-126	
75-05-8	Acetonitrile	212	**207**	**98**	51-134	
107-02-8	Acrolein	214	**224**	**105**	55-146	
67-64-1	Acetone	1,080	**1090**	**101**	57-120	
75-69-4	Trichlorofluoromethane	216	**171**	**79**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**430**	**103**	59-129	
107-13-1	Acrylonitrile	212	**235**	**111**	64-136	
75-35-4	1,1-Dichloroethene	216	**219**	**101**	72-123	
75-09-2	Methylene Chloride	222	**200**	**90**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**224**	**103**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**210**	**95**	68-118	
75-15-0	Carbon Disulfide	210	**165**	**79**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**224**	**107**	69-129	
75-34-3	1,1-Dichloroethane	212	**201**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**195**	**90**	55-128	
108-05-4	Vinyl Acetate	1,040	**1100**	**106**	66-140	
78-93-3	2-Butanone (MEK)	220	**242**	**110**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160331-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/31/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**221**	**101**	65-125	
141-78-6	Ethyl Acetate	428	**456**	**107**	64-132	
110-54-3	n-Hexane	212	**197**	**93**	58-126	
67-66-3	Chloroform	224	**201**	**90**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**208**	**95**	64-123	
107-06-2	1,2-Dichloroethane	214	**188**	**88**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**184**	**88**	68-120	
71-43-2	Benzene	226	**200**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**194**	**84**	65-137	
110-82-7	Cyclohexane	424	**404**	**95**	68-122	
78-87-5	1,2-Dichloropropane	216	**212**	**98**	67-122	
75-27-4	Bromodichloromethane	218	**202**	**93**	71-124	
79-01-6	Trichloroethene	216	**192**	**89**	71-121	
123-91-1	1,4-Dioxane	210	**230**	**110**	67-122	
80-62-6	Methyl Methacrylate	422	**470**	**111**	76-130	
142-82-5	n-Heptane	216	**210**	**97**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**213**	**102**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**246**	**112**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**220**	**105**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**210**	**97**	73-121	
108-88-3	Toluene	218	**203**	**93**	67-117	
591-78-6	2-Hexanone	220	**238**	**108**	59-128	
124-48-1	Dibromochloromethane	220	**222**	**101**	73-132	
106-93-4	1,2-Dibromoethane	218	**227**	**104**	73-128	
123-86-4	n-Butyl Acetate	226	**255**	**113**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P160331-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**209**	**100**	67-124	
127-18-4	Tetrachloroethene	202	**203**	**100**	65-126	
108-90-7	Chlorobenzene	220	**211**	**96**	68-120	
100-41-4	Ethylbenzene	218	**211**	**97**	69-123	
179601-23-1	m,p-Xylenes	428	**415**	**97**	67-125	
75-25-2	Bromoform	228	**222**	**97**	68-153	
100-42-5	Styrene	222	**226**	**102**	68-132	
95-47-6	o-Xylene	210	**202**	**96**	67-124	
111-84-2	n-Nonane	204	**203**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**214**	**102**	72-128	
98-82-8	Cumene	208	**198**	**95**	67-124	
80-56-8	alpha-Pinene	212	**211**	**100**	67-129	
103-65-1	n-Propylbenzene	204	**199**	**98**	67-125	
622-96-8	4-Ethyltoluene	214	**218**	**102**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**203**	**95**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**207**	**95**	62-134	
100-44-7	Benzyl Chloride	220	**211**	**96**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**220**	**96**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**210**	**101**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**210**	**95**	62-134	
5989-27-5	d-Limonene	210	**222**	**106**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**201**	**92**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**199**	**87**	60-145	
91-20-3	Naphthalene	218	**178**	**82**	56-158	
87-68-3	Hexachlorobutadiene	230	**199**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P160401-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**187**	**95**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**163**	**87**	65-117	
74-87-3	Chloromethane	200	**209**	**105**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**176**	**86**	65-122	
75-01-4	Vinyl Chloride	200	**196**	**98**	65-128	
106-99-0	1,3-Butadiene	206	**222**	**108**	62-143	
74-83-9	Bromomethane	202	**194**	**96**	65-130	
75-00-3	Chloroethane	200	**196**	**98**	69-126	
64-17-5	Ethanol	998	**1030**	**103**	57-126	
75-05-8	Acetonitrile	212	**211**	**100**	51-134	
107-02-8	Acrolein	214	**223**	**104**	55-146	
67-64-1	Acetone	1,080	**1170**	**108**	57-120	
75-69-4	Trichlorofluoromethane	216	**169**	**78**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**453**	**108**	59-129	
107-13-1	Acrylonitrile	212	**241**	**114**	64-136	
75-35-4	1,1-Dichloroethene	216	**217**	**100**	72-123	
75-09-2	Methylene Chloride	222	**204**	**92**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**233**	**107**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**207**	**94**	68-118	
75-15-0	Carbon Disulfide	210	**169**	**80**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**231**	**110**	69-129	
75-34-3	1,1-Dichloroethane	212	**207**	**98**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**199**	**92**	55-128	
108-05-4	Vinyl Acetate	1,040	**1190**	**114**	66-140	
78-93-3	2-Butanone (MEK)	220	**250**	**114**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160401-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**231**	**106**	65-125	
141-78-6	Ethyl Acetate	428	**510**	**119**	64-132	
110-54-3	n-Hexane	212	**216**	**102**	58-126	
67-66-3	Chloroform	224	**210**	**94**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**216**	**98**	64-123	
107-06-2	1,2-Dichloroethane	214	**196**	**92**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**185**	**88**	68-120	
71-43-2	Benzene	226	**213**	**94**	61-110	
56-23-5	Carbon Tetrachloride	230	**196**	**85**	65-137	
110-82-7	Cyclohexane	424	**427**	**101**	68-122	
78-87-5	1,2-Dichloropropane	216	**224**	**104**	67-122	
75-27-4	Bromodichloromethane	218	**209**	**96**	71-124	
79-01-6	Trichloroethene	216	**194**	**90**	71-121	
123-91-1	1,4-Dioxane	210	**238**	**113**	67-122	
80-62-6	Methyl Methacrylate	422	**483**	**114**	76-130	
142-82-5	n-Heptane	216	**219**	**101**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**221**	**106**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**263**	**120**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**229**	**109**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**217**	**100**	73-121	
108-88-3	Toluene	218	**206**	**94**	67-117	
591-78-6	2-Hexanone	220	**254**	**115**	59-128	
124-48-1	Dibromochloromethane	220	**220**	**100**	73-132	
106-93-4	1,2-Dibromoethane	218	**227**	**104**	73-128	
123-86-4	n-Butyl Acetate	226	**272**	**120**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P160401-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**220**	**105**	67-124	
127-18-4	Tetrachloroethene	202	**201**	**100**	65-126	
108-90-7	Chlorobenzene	220	**212**	**96**	68-120	
100-41-4	Ethylbenzene	218	**216**	**99**	69-123	
179601-23-1	m,p-Xylenes	428	**433**	**101**	67-125	
75-25-2	Bromoform	228	**222**	**97**	68-153	
100-42-5	Styrene	222	**232**	**105**	68-132	
95-47-6	o-Xylene	210	**211**	**100**	67-124	
111-84-2	n-Nonane	204	**222**	**109**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**226**	**108**	72-128	
98-82-8	Cumene	208	**205**	**99**	67-124	
80-56-8	alpha-Pinene	212	**219**	**103**	67-129	
103-65-1	n-Propylbenzene	204	**209**	**102**	67-125	
622-96-8	4-Ethyltoluene	214	**226**	**106**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**211**	**99**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**224**	**103**	62-134	
100-44-7	Benzyl Chloride	220	**226**	**103**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**228**	**100**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**216**	**104**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**220**	**100**	62-134	
5989-27-5	d-Limonene	210	**240**	**114**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**206**	**94**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**203**	**88**	60-145	
91-20-3	Naphthalene	218	**188**	**86**	56-158	
87-68-3	Hexachlorobutadiene	230	**202**	**88**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665
ALS Sample ID: P1601665-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00102

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.88 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.08

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Propene	2.32	1.35	1.86	1.08	2.09	**22**	25	
Dichlorodifluoromethane (CFC 12)	1.94	0.393	2.02	0.408	1.98	**4**	25	
Chloromethane	0.620	0.300	0.539	0.261	0.5795	**14**	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	ND	-	-	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	ND	-	-	25	
Trichlorofluoromethane	1.03	0.183	1.05	0.187	1.04	**2**	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	63.2	18.2	63.7	18.3	63.45	**0.8**	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.451	0.0589	0.468	0.0611	0.4595	**4**	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00102

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.88 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.08

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	0.218	0.0447	0.223	0.0456	0.2205	**2**	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	0.393	0.0721	0.333	0.0610	0.363	**17**	25	
Benzene	0.368	0.115	0.364	0.114	0.366	**1**	25	
Carbon Tetrachloride	0.385	0.0612	0.387	0.0615	0.386	**0.5**	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	ND	ND	ND	ND	-	-	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601665

ALS Sample ID: P1601665-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00102

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 3/31/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.88 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.08

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result **µg/m³**	Duplicate Sample Result **ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.928	0.137	0.913	0.135	0.9205	**2**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	4.33	0.777	4.42	0.794	4.375	**2**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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LABORATORY REPORT

April 4, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 31, 2016. For your reference, these analyses have been assigned our service request number P1601666.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 2:55 pm, Apr 04, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601666
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 31, 2016 and were stored in accordance with the analytical method requirements. Sample 113-SU (P1601666-001) was received with the base nut attaching the valve to the canister detached; therefore, the analysis was cancelled. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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T: +1 805 526 7161
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601666
Project ID: Aliso Canyon / 603287048

Date Received: 3/31/2016
Time Received: 09:30

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601666-002	Air	3/29/2016	09:20	CC00107	-0.26	3.70	X
P1601666-003	Air	3/29/2016	09:52	CC00106	-3.05	3.54	X
P1601666-004	Air	3/29/2016	11:51	CC00105	-5.91	3.62	X

P1G0166C

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg/Hovaness Dekeyan	
	Rotameter: n/a **Serial # :** n/a	**Expiration Date:** n/a	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Pressure ~~Flow Rate (L/min)~~ CW 3/30/16 Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
113-SU			-30		0952				Dining Rm table, ~3ft tall, CW 3/30/16 N. side of house. Serial ~~#3640~~ 5880 Silonite
			Avg:						
120-SU-L			-27.8	0	1029	0920	n/a		Dining Rm table, ~3.5ft tall N. side of house. Serial #3698
			Avg:						
110-SU			-28	-5.5	1118	0952	1354 min (22h34m)		Breakfast table in kitchen area. ~3.5ft tall. NE side of house. Serial # 5124. Silonite
			Avg:						
121-SU	↓	↓	-28.5	-11.3	1225	1151	1406 min (23h26m)		Dining Rm table. ~3.5ft tall N. side of house. Serial # 7347 Silonite
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	**Date:** 3/30/16	**Time:** 1745	**Received by:** Meredith	**Date:** 3/30/16	**Time:** 17:45
Relinquished by: Jo PB	**Date:** 3/31/16	**Time:** 930	**Received by:**	**Date:** 3/31/16	**Time:** 930
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601666

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/31/16 Date opened: 3/31/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601666-001.01	Canister					
P1601666-002.01	Canister					
P1601666-003.01	Canister					
P1601666-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666
ALS Sample ID: P1601666-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00107

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**15**	3.2	**8.8**	1.8	**D**
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.64	**0.43**	0.13	
74-87-3	Chloromethane	**0.60**	0.25	**0.29**	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.091	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.050	
106-99-0	1,3-Butadiene	ND	0.25	ND	0.11	
74-83-9	Bromomethane	ND	0.25	ND	0.065	
75-00-3	Chloroethane	ND	0.25	ND	0.096	
64-17-5	Ethanol	**27**	6.4	**14**	3.4	
75-05-8	Acetonitrile	ND	0.64	ND	0.38	
107-02-8	Acrolein	ND	2.5	ND	1.1	
67-64-1	Acetone	**160**	6.4	**68**	2.7	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	**0.20**	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**900**	32	**370**	13	**D**
107-13-1	Acrylonitrile	ND	0.64	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	**470**	3.2	**140**	0.91	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.041	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.13	**0.070**	0.017	
75-15-0	Carbon Disulfide	ND	6.4	ND	2.0	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.4	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	6.4	ND	2.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P1601666-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00107

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	ND	1.3	ND	0.35	
110-54-3	n-Hexane	ND	0.64	ND	0.18	
67-66-3	Chloroform	**0.13**	0.13	**0.027**	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.64	ND	0.22	
107-06-2	1,2-Dichloroethane	**0.17**	0.13	**0.041**	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	**0.51**	0.13	**0.16**	0.040	
56-23-5	Carbon Tetrachloride	**0.48**	0.13	**0.076**	0.020	
110-82-7	Cyclohexane	ND	1.3	ND	0.37	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.31	
142-82-5	n-Heptane	**3.1**	0.64	**0.76**	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.64	ND	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	**0.93**	0.64	**0.25**	0.17	
591-78-6	2-Hexanone	ND	0.64	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	ND	0.64	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P1601666-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00107

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	ND	0.64	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.64	ND	0.15	
75-25-2	Bromoform	ND	0.64	ND	0.061	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	ND	0.64	ND	0.15	
111-84-2	n-Nonane	ND	0.64	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	**0.87**	0.64	**0.16**	0.11	
103-65-1	n-Propylbenzene	ND	0.64	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.64	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.64	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.64	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	**2.3**	0.64	**0.41**	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	ND	0.066	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	ND	0.086	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

ALS Project ID: P1601666

Client Project ID: **Aliso Canyon / 603287048**

ALS Sample ID: P1601666-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/29/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	3/31/16
Analyst:	Wida Ang	Date Analyzed:	4/1/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.20 Liter(s)
Container ID:	CC00107		

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.27

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.37	Isobutane	**320**	
4.51	Methyl Alcohol	**6.5**	
4.73	n-Butane	**7.7**	
6.50	Isoprene	**3.8**	
19.38	unknown hydrocarbon	**8.4**	
20.24	unknown hydrocarbon	**7.3**	
20.30	unknown hydrocarbon	**10**	
20.45	unknown hydrocarbon	**11**	
20.60	unknown hydrocarbon	**6.2**	
20.80	unknown hydrocarbon	**4.5**	
20.89	unknown hydrocarbon	**4.4**	
20.97	unknown hydrocarbon	**17**	
21.06	unknown hydrocarbon	**4.1**	
21.09	unknown hydrocarbon	**3.6**	
21.28	unknown hydrocarbon	**3.7**	
21.33	unknown hydrocarbon	**9.5**	
21.50	unknown	**3.8**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666
ALS Sample ID: P1601666-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00106

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.05 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**3.1**	0.79	**1.8**	0.46	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.79	**0.44**	0.16	
74-87-3	Chloromethane	**0.50**	0.31	**0.24**	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.061	
106-99-0	1,3-Butadiene	ND	0.31	ND	0.14	
74-83-9	Bromomethane	ND	0.31	ND	0.081	
75-00-3	Chloroethane	ND	0.31	ND	0.12	
64-17-5	Ethanol	**79**	7.9	**42**	4.2	
75-05-8	Acetonitrile	ND	0.79	ND	0.47	
107-02-8	Acrolein	ND	3.1	ND	1.4	
67-64-1	Acetone	**43**	7.9	**18**	3.3	
75-69-4	Trichlorofluoromethane	**1.3**	0.16	**0.23**	0.028	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	7.9	ND	3.2	
107-13-1	Acrylonitrile	ND	0.79	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.040	
75-09-2	Methylene Chloride	**57**	0.79	**17**	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.050	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.16	**0.066**	0.020	
75-15-0	Carbon Disulfide	ND	7.9	ND	2.5	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.040	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.044	
108-05-4	Vinyl Acetate	ND	7.9	ND	2.2	
78-93-3	2-Butanone (MEK)	ND	7.9	ND	2.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P1601666-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00106

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.05 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.040	
141-78-6	Ethyl Acetate	**20**	1.6	**5.6**	0.44	
110-54-3	n-Hexane	ND	0.79	ND	0.22	
67-66-3	Chloroform	**0.26**	0.16	**0.053**	0.032	
109-99-9	Tetrahydrofuran (THF)	ND	0.79	ND	0.27	
107-06-2	1,2-Dichloroethane	**0.61**	0.16	**0.15**	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.029	
71-43-2	Benzene	**0.64**	0.16	**0.20**	0.049	
56-23-5	Carbon Tetrachloride	**0.51**	0.16	**0.082**	0.025	
110-82-7	Cyclohexane	ND	1.6	ND	0.46	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.034	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.023	
79-01-6	Trichloroethene	ND	0.16	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.79	ND	0.22	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.38	
142-82-5	n-Heptane	ND	0.79	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.79	ND	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	**2.2**	0.79	**0.58**	0.21	
591-78-6	2-Hexanone	ND	0.79	ND	0.19	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.020	
123-86-4	n-Butyl Acetate	**10**	0.79	**2.1**	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P1601666-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00106

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.05 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.79	ND	0.17	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.023	
108-90-7	Chlorobenzene	ND	0.16	ND	0.034	
100-41-4	Ethylbenzene	ND	0.79	ND	0.18	
179601-23-1	m,p-Xylenes	**1.1**	0.79	**0.26**	0.18	
75-25-2	Bromoform	ND	0.79	ND	0.076	
100-42-5	Styrene	ND	0.79	ND	0.18	
95-47-6	o-Xylene	ND	0.79	ND	0.18	
111-84-2	n-Nonane	ND	0.79	ND	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.79	ND	0.16	
80-56-8	alpha-Pinene	**1.4**	0.79	**0.25**	0.14	
103-65-1	n-Propylbenzene	ND	0.79	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.79	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	0.79	ND	0.16	
100-44-7	Benzyl Chloride	ND	0.79	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.026	
106-46-7	1,4-Dichlorobenzene	**61**	0.16	**10**	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.026	
5989-27-5	d-Limonene	**48**	0.79	**8.5**	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	ND	0.081	
120-82-1	1,2,4-Trichlorobenzene	ND	0.79	ND	0.11	
91-20-3	Naphthalene	ND	0.79	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.79	ND	0.074	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666
ALS Sample ID: P1601666-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00105

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.91 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	1.0	ND	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	**0.43**	0.21	
74-87-3	Chloromethane	**0.50**	0.42	**0.24**	0.20	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	ND	0.15	
75-01-4	Vinyl Chloride	ND	0.21	ND	0.081	
106-99-0	1,3-Butadiene	ND	0.42	ND	0.19	
74-83-9	Bromomethane	ND	0.42	ND	0.11	
75-00-3	Chloroethane	ND	0.42	ND	0.16	
64-17-5	Ethanol	**67**	10	**36**	5.5	
75-05-8	Acetonitrile	ND	1.0	ND	0.62	
107-02-8	Acrolein	ND	4.2	ND	1.8	
67-64-1	Acetone	**11**	10	**4.5**	4.4	
75-69-4	Trichlorofluoromethane	**1.1**	0.21	**0.20**	0.037	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	10	ND	4.2	
107-13-1	Acrylonitrile	ND	1.0	ND	0.48	
75-35-4	1,1-Dichloroethene	ND	0.21	ND	0.052	
75-09-2	Methylene Chloride	**22**	1.0	**6.2**	0.30	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	ND	0.066	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.21	**0.066**	0.027	
75-15-0	Carbon Disulfide	ND	10	ND	3.3	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	ND	0.052	
75-34-3	1,1-Dichloroethane	ND	0.21	ND	0.051	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	ND	0.058	
108-05-4	Vinyl Acetate	ND	10	ND	3.0	
78-93-3	2-Butanone (MEK)	ND	10	ND	3.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P1601666-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00105

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.91 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	ND	0.052	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	1.0	ND	0.30	
67-66-3	Chloroform	ND	0.21	ND	0.043	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.35	
107-06-2	1,2-Dichloroethane	**0.45**	0.21	**0.11**	0.051	
71-55-6	1,1,1-Trichloroethane	ND	0.21	ND	0.038	
71-43-2	Benzene	**0.41**	0.21	**0.13**	0.065	
56-23-5	Carbon Tetrachloride	**0.47**	0.21	**0.074**	0.033	
110-82-7	Cyclohexane	ND	2.1	ND	0.60	
78-87-5	1,2-Dichloropropane	ND	0.21	ND	0.045	
75-27-4	Bromodichloromethane	ND	0.21	ND	0.031	
79-01-6	Trichloroethene	ND	0.21	ND	0.039	
123-91-1	1,4-Dioxane	ND	1.0	ND	0.29	
80-62-6	Methyl Methacrylate	ND	2.1	ND	0.51	
142-82-5	n-Heptane	**2.6**	1.0	**0.63**	0.25	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.23	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.25	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.23	
79-00-5	1,1,2-Trichloroethane	ND	0.21	ND	0.038	
108-88-3	Toluene	ND	1.0	ND	0.28	
591-78-6	2-Hexanone	ND	1.0	ND	0.25	
124-48-1	Dibromochloromethane	ND	0.21	ND	0.024	
106-93-4	1,2-Dibromoethane	ND	0.21	ND	0.027	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P1601666-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00105

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.91 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.08

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	ND	0.22	
127-18-4	Tetrachloroethene	ND	0.21	ND	0.031	
108-90-7	Chlorobenzene	ND	0.21	ND	0.045	
100-41-4	Ethylbenzene	ND	1.0	ND	0.24	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.24	
75-25-2	Bromoform	ND	1.0	ND	0.10	
100-42-5	Styrene	ND	1.0	ND	0.24	
95-47-6	o-Xylene	ND	1.0	ND	0.24	
111-84-2	n-Nonane	ND	1.0	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	ND	0.030	
98-82-8	Cumene	ND	1.0	ND	0.21	
80-56-8	alpha-Pinene	ND	1.0	ND	0.19	
103-65-1	n-Propylbenzene	ND	1.0	ND	0.21	
622-96-8	4-Ethyltoluene	ND	1.0	ND	0.21	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ND	0.21	
100-44-7	Benzyl Chloride	ND	1.0	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	0.21	ND	0.035	
106-46-7	1,4-Dichlorobenzene	ND	0.21	ND	0.035	
95-50-1	1,2-Dichlorobenzene	ND	0.21	ND	0.035	
5989-27-5	d-Limonene	**1.2**	1.0	**0.22**	0.19	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.14	
91-20-3	Naphthalene	ND	1.0	ND	0.20	
87-68-3	Hexachlorobutadiene	ND	1.0	ND	0.098	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P160401-MB

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	NA
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	NA
Analyst:	Wida Ang	Date Analyzed:	4/1/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601666

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/29/16
Analyst: Wida Ang Date(s) Received: 3/31/16
Sample Type: Canister(s) Date(s) Analyzed: 4/1/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160401-MB	**106**	**99**	**102**	70-130	
	P160401-LCS	**102**	**95**	**103**	70-130	
	P1601666-002	**100**	**96**	**104**	70-130	
	P1601666-003	**101**	**97**	**104**	70-130	
	P1601666-004	**100**	**98**	**104**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666
ALS Sample ID: P160401-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**167**	**85**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**168**	**89**	65-117	
74-87-3	Chloromethane	200	**196**	**98**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**174**	**85**	65-122	
75-01-4	Vinyl Chloride	200	**191**	**96**	65-128	
106-99-0	1,3-Butadiene	206	**208**	**101**	62-143	
74-83-9	Bromomethane	202	**192**	**95**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**844**	**85**	57-126	
75-05-8	Acetonitrile	212	**175**	**83**	51-134	
107-02-8	Acrolein	214	**185**	**86**	55-146	
67-64-1	Acetone	1,080	**860**	**80**	57-120	
75-69-4	Trichlorofluoromethane	216	**172**	**80**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**381**	**91**	59-129	
107-13-1	Acrylonitrile	212	**203**	**96**	64-136	
75-35-4	1,1-Dichloroethene	216	**202**	**94**	72-123	
75-09-2	Methylene Chloride	222	**178**	**80**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**223**	**102**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**193**	**88**	68-118	
75-15-0	Carbon Disulfide	210	**153**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**205**	**98**	69-129	
75-34-3	1,1-Dichloroethane	212	**186**	**88**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**192**	**89**	55-128	
108-05-4	Vinyl Acetate	1,040	**1050**	**101**	66-140	
78-93-3	2-Butanone (MEK)	220	**162**	**74**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666
ALS Sample ID: P160401-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**206**	**94**	65-125	
141-78-6	Ethyl Acetate	428	**396**	**93**	64-132	
110-54-3	n-Hexane	212	**154**	**73**	58-126	
67-66-3	Chloroform	224	**195**	**87**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**205**	**93**	64-123	
107-06-2	1,2-Dichloroethane	214	**197**	**92**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**205**	**98**	68-120	
71-43-2	Benzene	226	**190**	**84**	61-110	
56-23-5	Carbon Tetrachloride	230	**218**	**95**	65-137	
110-82-7	Cyclohexane	424	**373**	**88**	68-122	
78-87-5	1,2-Dichloropropane	216	**196**	**91**	67-122	
75-27-4	Bromodichloromethane	218	**220**	**101**	71-124	
79-01-6	Trichloroethene	216	**188**	**87**	71-121	
123-91-1	1,4-Dioxane	210	**223**	**106**	67-122	
80-62-6	Methyl Methacrylate	422	**393**	**93**	76-130	
142-82-5	n-Heptane	216	**185**	**86**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**205**	**99**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**216**	**98**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**218**	**104**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**207**	**96**	73-121	
108-88-3	Toluene	218	**156**	**72**	67-117	
591-78-6	2-Hexanone	220	**210**	**95**	59-128	
124-48-1	Dibromochloromethane	220	**222**	**101**	73-132	
106-93-4	1,2-Dibromoethane	218	**207**	**95**	73-128	
123-86-4	n-Butyl Acetate	226	**226**	**100**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601666

ALS Sample ID: P160401-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**180**	**86**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**189**	**86**	68-120	
100-41-4	Ethylbenzene	218	**193**	**89**	69-123	
179601-23-1	m,p-Xylenes	428	**374**	**87**	67-125	
75-25-2	Bromoform	228	**224**	**98**	68-153	
100-42-5	Styrene	222	**214**	**96**	68-132	
95-47-6	o-Xylene	210	**187**	**89**	67-124	
111-84-2	n-Nonane	204	**185**	**91**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**196**	**93**	72-128	
98-82-8	Cumene	208	**184**	**88**	67-124	
80-56-8	alpha-Pinene	212	**192**	**91**	67-129	
103-65-1	n-Propylbenzene	204	**184**	**90**	67-125	
622-96-8	4-Ethyltoluene	214	**192**	**90**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**191**	**89**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**199**	**91**	62-134	
100-44-7	Benzyl Chloride	220	**241**	**110**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**205**	**90**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**191**	**92**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**201**	**91**	62-134	
5989-27-5	d-Limonene	210	**202**	**96**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**220**	**101**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**202**	**88**	60-145	
91-20-3	Naphthalene	218	**192**	**88**	56-158	
87-68-3	Hexachlorobutadiene	230	**196**	**85**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 1, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 31, 2016. For your reference, these analyses have been assigned our service request number P1601668.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 4:37 pm, Apr 01, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601668
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 31, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601668
Project ID: Aliso Canyon / 603287048

Date Received: 3/31/2016
Time Received: 09:30

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601668-001	Air	3/29/2016	15:14	AC01840	-0.56	4.47	X
	P1601668-002	Air	3/29/2016	15:33	AC01044	-5.55	3.56	X
	P1601668-003	Air	3/29/2016	16:46	CC00120	-2.21	3.52	X
	P1601668-004	Air	3/29/2016	16:50	CC00142	0.60	3.90	X
	P1601668-005	Air	3/29/2016	17:17	CC00141	-3.35	3.94	X

P1601663 Page 2 of 3

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg/Hovanes Dekeyan	
	Rotameter: n/a Serial # : n/a	Expiration Date: n/a	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pressure Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
39-SU-G			-28.5	0	1559	1514	n/a		Kitchen table, ~3.5 ft tall. S. side of house. Serial# 11962 Silonite
			Avg:						
39-SUD			-28.3	-10.5	1601	1533			Kitchen table, ~3.5 ft tall. S. side of house. Serial# 002830
			Avg:						
90-SU					1646		Grab	Sample	Dining table by kitchen. 4ft tall N side of house
			Avg:						
35-SU			-28	0	1727	1650	n/a		Dining table by living RM ~3.5 ft tall. Center of house. Serial# 10595 Silonate
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	Date: 3/30/16	Time: 1745	Received by: Meredith Church	Date: 3/30/16	Time: 17:45
Relinquished by: [signature]	Date: 3/31/16	Time: 930	Received by: [signature]	Date: 3/31/16	Time: 0930
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

4/1/16

5 of 29

P1601668

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/29/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg/Hovaness Dekoyan
	Rotameter: n/a Serial # : n/a	Expiration Date: n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pressure (w/s/2016) Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
-94-SU			-27.8	-5.5	1800	1717	1397		Dining table in living room ~3.5ft tall. East side of house Serial#10606. Silonite
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	Date: 3/30/16	Time: 1745	Received by: Meredith Church	Date: 3/30/16	Time: 17:45
Relinquished by: JBL	Date: 3/31/16	Time: 930	Received by:	Date: 3/30/16 31	Time: 6930
Relinquished by:	Date:	Time:	Received by:	Date: 4/1/16	Time:

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601668

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/31/16 Date opened: 3/31/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601668-001.01	Canister					
P1601668-002.01	Canister					
P1601668-003.01	Canister					
P1601668-004.01	Canister					
P1601668-005.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P1601668-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01840

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.56 Final Pressure (psig): 4.47

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**22**	0.68	**13**	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.68	**0.45**	0.14	
74-87-3	Chloromethane	**0.56**	0.27	**0.27**	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
74-83-9	Bromomethane	ND	0.27	ND	0.070	
75-00-3	Chloroethane	ND	0.27	ND	0.10	
64-17-5	Ethanol	**350**	6.8	**190**	3.6	
75-05-8	Acetonitrile	ND	0.68	ND	0.41	
107-02-8	Acrolein	ND	2.7	ND	1.2	
67-64-1	Acetone	**23**	6.8	**9.6**	2.9	
75-69-4	Trichlorofluoromethane	**1.2**	0.14	**0.21**	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	**34**	6.8	**14**	2.8	
107-13-1	Acrylonitrile	ND	0.68	ND	0.31	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	**63**	0.68	**18**	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.043	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.14	**0.068**	0.018	
75-15-0	Carbon Disulfide	ND	6.8	ND	2.2	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.038	
108-05-4	Vinyl Acetate	ND	6.8	ND	1.9	
78-93-3	2-Butanone (MEK)	ND	6.8	ND	2.3	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01840

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.56 Final Pressure (psig): 4.47

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	**6.9**	1.4	**1.9**	0.38	
110-54-3	n-Hexane	ND	0.68	ND	0.19	
67-66-3	Chloroform	**0.30**	0.14	**0.060**	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	0.68	ND	0.23	
107-06-2	1,2-Dichloroethane	**1.6**	0.14	**0.39**	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	**0.74**	0.14	**0.23**	0.043	
56-23-5	Carbon Tetrachloride	**0.55**	0.14	**0.088**	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.68	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	**1.2**	0.68	**0.29**	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	0.68	ND	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	**4.2**	0.68	**1.1**	0.18	
591-78-6	2-Hexanone	ND	0.68	ND	0.17	
124-48-1	Dibromochloromethane	**0.16**	0.14	**0.019**	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	**1.4**	0.68	**0.29**	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01840

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.56 Final Pressure (psig): 4.47

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.68	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.14	ND	0.030	
100-41-4	Ethylbenzene	**0.72**	0.68	**0.17**	0.16	
179601-23-1	m,p-Xylenes	**2.4**	0.68	**0.56**	0.16	
75-25-2	Bromoform	ND	0.68	ND	0.066	
100-42-5	Styrene	ND	0.68	ND	0.16	
95-47-6	o-Xylene	**0.78**	0.68	**0.18**	0.16	
111-84-2	n-Nonane	ND	0.68	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.68	ND	0.14	
80-56-8	alpha-Pinene	**3.1**	0.68	**0.56**	0.12	
103-65-1	n-Propylbenzene	ND	0.68	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	**0.99**	0.68	**0.20**	0.14	
100-44-7	Benzyl Chloride	ND	0.68	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.023	
106-46-7	1,4-Dichlorobenzene	**2.7**	0.14	**0.44**	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.023	
5989-27-5	d-Limonene	**8.2**	0.68	**1.5**	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.68	ND	0.070	
120-82-1	1,2,4-Trichlorobenzene	ND	0.68	ND	0.092	
91-20-3	Naphthalene	ND	0.68	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.68	ND	0.064	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P1601668-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01044

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.55 Final Pressure (psig): 3.56

Canister Dilution Factor: 2.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**21**	1.0	**12**	0.58	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.0	**0.45**	0.20	
74-87-3	Chloromethane	**0.63**	0.40	**0.30**	0.19	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	ND	0.14	
75-01-4	Vinyl Chloride	ND	0.20	ND	0.078	
106-99-0	1,3-Butadiene	ND	0.40	ND	0.18	
74-83-9	Bromomethane	ND	0.40	ND	0.10	
75-00-3	Chloroethane	ND	0.40	ND	0.15	
64-17-5	Ethanol	**390**	10	**210**	5.3	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	4.0	ND	1.7	
67-64-1	Acetone	**28**	10	**12**	4.2	
75-69-4	Trichlorofluoromethane	**1.2**	0.20	**0.21**	0.036	
67-63-0	2-Propanol (Isopropyl Alcohol)	**35**	10	**14**	4.1	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.20	ND	0.050	
75-09-2	Methylene Chloride	**73**	1.0	**21**	0.29	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	ND	0.064	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.20	**0.067**	0.026	
75-15-0	Carbon Disulfide	ND	10	ND	3.2	
156-60-5	trans-1,2-Dichloroethene	ND	0.20	ND	0.050	
75-34-3	1,1-Dichloroethane	ND	0.20	ND	0.049	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	ND	0.055	
108-05-4	Vinyl Acetate	ND	10	ND	2.8	
78-93-3	2-Butanone (MEK)	ND	10	ND	3.4	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01044

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.55 Final Pressure (psig): 3.56

Canister Dilution Factor: 2.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	ND	0.050	
141-78-6	Ethyl Acetate	**7.0**	2.0	**1.9**	0.56	
110-54-3	n-Hexane	ND	1.0	ND	0.28	
67-66-3	Chloroform	**0.30**	0.20	**0.061**	0.041	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
107-06-2	1,2-Dichloroethane	**1.6**	0.20	**0.41**	0.049	
71-55-6	1,1,1-Trichloroethane	ND	0.20	ND	0.037	
71-43-2	Benzene	**0.82**	0.20	**0.26**	0.063	
56-23-5	Carbon Tetrachloride	**0.26**	0.20	**0.041**	0.032	
110-82-7	Cyclohexane	ND	2.0	ND	0.58	
78-87-5	1,2-Dichloropropane	ND	0.20	ND	0.043	
75-27-4	Bromodichloromethane	ND	0.20	ND	0.030	
79-01-6	Trichloroethene	ND	0.20	ND	0.037	
123-91-1	1,4-Dioxane	ND	1.0	ND	0.28	
80-62-6	Methyl Methacrylate	ND	2.0	ND	0.49	
142-82-5	n-Heptane	**1.2**	1.0	**0.30**	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	0.20	ND	0.037	
108-88-3	Toluene	**4.3**	1.0	**1.2**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	0.20	ND	0.023	
106-93-4	1,2-Dibromoethane	ND	0.20	ND	0.026	
123-86-4	n-Butyl Acetate	**1.0**	1.0	**0.22**	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01044

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.55 Final Pressure (psig): 3.56

Canister Dilution Factor: 2.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	ND	0.21	
127-18-4	Tetrachloroethene	ND	0.20	ND	0.030	
108-90-7	Chlorobenzene	ND	0.20	ND	0.043	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
179601-23-1	m,p-Xylenes	**2.5**	1.0	**0.57**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
111-84-2	n-Nonane	ND	1.0	ND	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ND	0.029	
98-82-8	Cumene	ND	1.0	ND	0.20	
80-56-8	alpha-Pinene	**3.0**	1.0	**0.55**	0.18	
103-65-1	n-Propylbenzene	ND	1.0	ND	0.20	
622-96-8	4-Ethyltoluene	ND	1.0	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ND	0.20	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ND	0.20	
100-44-7	Benzyl Chloride	ND	1.0	ND	0.19	
541-73-1	1,3-Dichlorobenzene	ND	0.20	ND	0.033	
106-46-7	1,4-Dichlorobenzene	**2.8**	0.20	**0.46**	0.033	
95-50-1	1,2-Dichlorobenzene	ND	0.20	ND	0.033	
5989-27-5	d-Limonene	**7.5**	1.0	**1.3**	0.18	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.13	
91-20-3	Naphthalene	ND	1.0	ND	0.19	
87-68-3	Hexachlorobutadiene	ND	1.0	ND	0.094	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P1601668-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00120

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 3.52

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**1.4**	0.73	**0.82**	0.42	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.73	**0.44**	0.15	
74-87-3	Chloromethane	**0.52**	0.29	**0.25**	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.29	ND	0.13	
74-83-9	Bromomethane	ND	0.29	ND	0.075	
75-00-3	Chloroethane	ND	0.29	ND	0.11	
64-17-5	Ethanol	**23**	7.3	**12**	3.9	
75-05-8	Acetonitrile	ND	0.73	ND	0.43	
107-02-8	Acrolein	ND	2.9	ND	1.3	
67-64-1	Acetone	**9.3**	7.3	**3.9**	3.1	
75-69-4	Trichlorofluoromethane	**1.1**	0.15	**0.20**	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	7.3	ND	3.0	
107-13-1	Acrylonitrile	ND	0.73	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	**440**	3.7	**130**	1.1	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	**0.55**	0.15	**0.072**	0.019	
75-15-0	Carbon Disulfide	ND	7.3	ND	2.3	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.3	ND	2.1	
78-93-3	2-Butanone (MEK)	ND	7.3	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00120

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 3.52

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	ND	1.5	ND	0.41	
110-54-3	n-Hexane	ND	0.73	ND	0.21	
67-66-3	Chloroform	**0.15**	0.15	**0.031**	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.73	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	**0.25**	0.15	**0.079**	0.046	
56-23-5	Carbon Tetrachloride	**0.47**	0.15	**0.075**	0.023	
110-82-7	Cyclohexane	ND	1.5	ND	0.42	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.73	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	ND	0.73	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.73	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	ND	0.73	ND	0.19	
591-78-6	2-Hexanone	ND	0.73	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	0.73	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00120

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 3.52

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.73	ND	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	ND	0.73	ND	0.17	
179601-23-1	m,p-Xylenes	ND	0.73	ND	0.17	
75-25-2	Bromoform	ND	0.73	ND	0.071	
100-42-5	Styrene	ND	0.73	ND	0.17	
95-47-6	o-Xylene	ND	0.73	ND	0.17	
111-84-2	n-Nonane	ND	0.73	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.73	ND	0.15	
80-56-8	alpha-Pinene	ND	0.73	ND	0.13	
103-65-1	n-Propylbenzene	ND	0.73	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.73	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.73	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.73	ND	0.14	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
5989-27-5	d-Limonene	**0.80**	0.73	**0.14**	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.73	ND	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.73	ND	0.098	
91-20-3	Naphthalene	ND	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.73	ND	0.068	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P1601668-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00142

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.60 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.22

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	0.61	**1.5**	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.61	**0.40**	0.12	
74-87-3	Chloromethane	**0.54**	0.24	**0.26**	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.24	ND	0.11	
74-83-9	Bromomethane	ND	0.24	ND	0.063	
75-00-3	Chloroethane	ND	0.24	ND	0.093	
64-17-5	Ethanol	**170**	6.1	**89**	3.2	
75-05-8	Acetonitrile	ND	0.61	ND	0.36	
107-02-8	Acrolein	ND	2.4	ND	1.1	
67-64-1	Acetone	**20**	6.1	**8.5**	2.6	
75-69-4	Trichlorofluoromethane	**1.1**	0.12	**0.19**	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	6.1	ND	2.5	
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	**71**	0.61	**20**	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.12	**0.060**	0.016	
75-15-0	Carbon Disulfide	ND	6.1	ND	2.0	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.1	ND	1.7	
78-93-3	2-Butanone (MEK)	ND	6.1	ND	2.1	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00142

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.60 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.22

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	**1.4**	1.2	**0.40**	0.34	
110-54-3	n-Hexane	ND	0.61	ND	0.17	
67-66-3	Chloroform	**0.22**	0.12	**0.044**	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.61	ND	0.21	
107-06-2	1,2-Dichloroethane	**0.25**	0.12	**0.063**	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.022	
71-43-2	Benzene	**0.32**	0.12	**0.10**	0.038	
56-23-5	Carbon Tetrachloride	**0.43**	0.12	**0.068**	0.019	
110-82-7	Cyclohexane	ND	1.2	ND	0.35	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.026	
75-27-4	Bromodichloromethane	**0.15**	0.12	**0.022**	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.61	ND	0.17	
80-62-6	Methyl Methacrylate	ND	1.2	ND	0.30	
142-82-5	n-Heptane	ND	0.61	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.61	ND	0.13	
108-10-1	4-Methyl-2-pentanone	ND	0.61	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.61	ND	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.022	
108-88-3	Toluene	**0.61**	0.61	**0.16**	0.16	
591-78-6	2-Hexanone	ND	0.61	ND	0.15	
124-48-1	Dibromochloromethane	**0.48**	0.12	**0.056**	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	ND	0.61	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00142

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.60 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.22

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.61	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	ND	0.61	ND	0.14	
179601-23-1	m,p-Xylenes	ND	0.61	ND	0.14	
75-25-2	Bromoform	ND	0.61	ND	0.059	
100-42-5	Styrene	ND	0.61	ND	0.14	
95-47-6	o-Xylene	ND	0.61	ND	0.14	
111-84-2	n-Nonane	ND	0.61	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.61	ND	0.12	
80-56-8	alpha-Pinene	**1.2**	0.61	**0.22**	0.11	
103-65-1	n-Propylbenzene	ND	0.61	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.61	ND	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	0.61	ND	0.12	
95-63-6	1,2,4-Trimethylbenzene	ND	0.61	ND	0.12	
100-44-7	Benzyl Chloride	ND	0.61	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	**7.5**	0.61	**1.3**	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.61	ND	0.063	
120-82-1	1,2,4-Trichlorobenzene	ND	0.61	ND	0.082	
91-20-3	Naphthalene	ND	0.61	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.61	ND	0.057	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P1601668-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00141

Date Collected: 3/29/16
Date Received: 3/31/16
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.35 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**8.5**	0.82	**5.0**	0.48	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.82	**0.45**	0.17	
74-87-3	Chloromethane	**0.56**	0.33	**0.27**	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.064	
106-99-0	1,3-Butadiene	ND	0.33	ND	0.15	
74-83-9	Bromomethane	ND	0.33	ND	0.085	
75-00-3	Chloroethane	ND	0.33	ND	0.12	
64-17-5	Ethanol	**130**	8.2	**72**	4.4	
75-05-8	Acetonitrile	**1.2**	0.82	**0.69**	0.49	
107-02-8	Acrolein	ND	3.3	ND	1.4	
67-64-1	Acetone	**88**	8.2	**37**	3.5	
75-69-4	Trichlorofluoromethane	**1.2**	0.16	**0.21**	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	**15**	8.2	**6.1**	3.3	
107-13-1	Acrylonitrile	ND	0.82	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	**79**	0.82	**23**	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.052	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.16	**0.066**	0.021	
75-15-0	Carbon Disulfide	ND	8.2	ND	2.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.046	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	**15**	8.2	**5.2**	2.8	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00141

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.35 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
141-78-6	Ethyl Acetate	**4.9**	1.6	**1.3**	0.46	
110-54-3	n-Hexane	**1.1**	0.82	**0.32**	0.23	
67-66-3	Chloroform	ND	0.16	ND	0.034	
109-99-9	Tetrahydrofuran (THF)	**88**	0.82	**30**	0.28	
107-06-2	1,2-Dichloroethane	**1.8**	0.16	**0.43**	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	**1.1**	0.16	**0.35**	0.051	
56-23-5	Carbon Tetrachloride	**0.55**	0.16	**0.087**	0.026	
110-82-7	Cyclohexane	ND	1.6	ND	0.48	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	ND	0.16	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.82	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.40	
142-82-5	n-Heptane	**12**	0.82	**2.9**	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.82	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	**6.5**	0.82	**1.7**	0.22	
591-78-6	2-Hexanone	ND	0.82	ND	0.20	
124-48-1	Dibromochloromethane	**0.34**	0.16	**0.040**	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	**1.1**	0.82	**0.23**	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P1601668-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00141

Date Collected: 3/29/16

Date Received: 3/31/16

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.35 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.82	ND	0.18	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.036	
100-41-4	Ethylbenzene	**1.5**	0.82	**0.34**	0.19	
179601-23-1	m,p-Xylenes	**5.3**	0.82	**1.2**	0.19	
75-25-2	Bromoform	ND	0.82	ND	0.079	
100-42-5	Styrene	ND	0.82	ND	0.19	
95-47-6	o-Xylene	**1.5**	0.82	**0.35**	0.19	
111-84-2	n-Nonane	ND	0.82	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.024	
98-82-8	Cumene	ND	0.82	ND	0.17	
80-56-8	alpha-Pinene	**2.5**	0.82	**0.45**	0.15	
103-65-1	n-Propylbenzene	ND	0.82	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.82	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.82	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	**0.83**	0.82	**0.17**	0.17	
100-44-7	Benzyl Chloride	ND	0.82	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
5989-27-5	d-Limonene	**49**	0.82	**8.8**	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.82	ND	0.11	
91-20-3	Naphthalene	**1.1**	0.82	**0.20**	0.16	
87-68-3	Hexachlorobutadiene	ND	0.82	ND	0.077	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P160401-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P160401-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601668

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/29/16
Analyst: Wida Ang Date(s) Received: 3/31/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/1/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160401-MB	**106**	**99**	**102**	70-130	
	P160401-LCS	**102**	**95**	**103**	70-130	
	P1601668-001	**105**	**98**	**101**	70-130	
	P1601668-002	**103**	**98**	**101**	70-130	
	P1601668-003	**101**	**99**	**102**	70-130	
	P1601668-004	**101**	**98**	**102**	70-130	
	P1601668-005	**101**	**99**	**103**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P160401-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**167**	**85**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**168**	**89**	65-117	
74-87-3	Chloromethane	200	**196**	**98**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**174**	**85**	65-122	
75-01-4	Vinyl Chloride	200	**191**	**96**	65-128	
106-99-0	1,3-Butadiene	206	**208**	**101**	62-143	
74-83-9	Bromomethane	202	**192**	**95**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**844**	**85**	57-126	
75-05-8	Acetonitrile	212	**175**	**83**	51-134	
107-02-8	Acrolein	214	**185**	**86**	55-146	
67-64-1	Acetone	1,080	**860**	**80**	57-120	
75-69-4	Trichlorofluoromethane	216	**172**	**80**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**381**	**91**	59-129	
107-13-1	Acrylonitrile	212	**203**	**96**	64-136	
75-35-4	1,1-Dichloroethene	216	**202**	**94**	72-123	
75-09-2	Methylene Chloride	222	**178**	**80**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**223**	**102**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**193**	**88**	68-118	
75-15-0	Carbon Disulfide	210	**153**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**205**	**98**	69-129	
75-34-3	1,1-Dichloroethane	212	**186**	**88**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**192**	**89**	55-128	
108-05-4	Vinyl Acetate	1,040	**1050**	**101**	66-140	
78-93-3	2-Butanone (MEK)	220	**162**	**74**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668

ALS Sample ID: P160401-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/1/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**206**	**94**	65-125	
141-78-6	Ethyl Acetate	428	**396**	**93**	64-132	
110-54-3	n-Hexane	212	**154**	**73**	58-126	
67-66-3	Chloroform	224	**195**	**87**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**205**	**93**	64-123	
107-06-2	1,2-Dichloroethane	214	**197**	**92**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**205**	**98**	68-120	
71-43-2	Benzene	226	**190**	**84**	61-110	
56-23-5	Carbon Tetrachloride	230	**218**	**95**	65-137	
110-82-7	Cyclohexane	424	**373**	**88**	68-122	
78-87-5	1,2-Dichloropropane	216	**196**	**91**	67-122	
75-27-4	Bromodichloromethane	218	**220**	**101**	71-124	
79-01-6	Trichloroethene	216	**188**	**87**	71-121	
123-91-1	1,4-Dioxane	210	**223**	**106**	67-122	
80-62-6	Methyl Methacrylate	422	**393**	**93**	76-130	
142-82-5	n-Heptane	216	**185**	**86**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**205**	**99**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**216**	**98**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**218**	**104**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**207**	**96**	73-121	
108-88-3	Toluene	218	**156**	**72**	67-117	
591-78-6	2-Hexanone	220	**210**	**95**	59-128	
124-48-1	Dibromochloromethane	220	**222**	**101**	73-132	
106-93-4	1,2-Dibromoethane	218	**207**	**95**	73-128	
123-86-4	n-Butyl Acetate	226	**226**	**100**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601668
ALS Sample ID: P160401-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/1/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**180**	**86**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**189**	**86**	68-120	
100-41-4	Ethylbenzene	218	**193**	**89**	69-123	
179601-23-1	m,p-Xylenes	428	**374**	**87**	67-125	
75-25-2	Bromoform	228	**224**	**98**	68-153	
100-42-5	Styrene	222	**214**	**96**	68-132	
95-47-6	o-Xylene	210	**187**	**89**	67-124	
111-84-2	n-Nonane	204	**185**	**91**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**196**	**93**	72-128	
98-82-8	Cumene	208	**184**	**88**	67-124	
80-56-8	alpha-Pinene	212	**192**	**91**	67-129	
103-65-1	n-Propylbenzene	204	**184**	**90**	67-125	
622-96-8	4-Ethyltoluene	214	**192**	**90**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**191**	**89**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**199**	**91**	62-134	
100-44-7	Benzyl Chloride	220	**241**	**110**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**205**	**90**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**191**	**92**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**201**	**91**	62-134	
5989-27-5	d-Limonene	210	**202**	**96**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**220**	**101**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**202**	**88**	60-145	
91-20-3	Naphthalene	218	**192**	**88**	56-158	
87-68-3	Hexachlorobutadiene	230	**196**	**85**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2016. For your reference, these analyses have been assigned our service request number P1601688.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 8:55 am, Apr 06, 2016

Kate Aguilera
Project Manager

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F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601688
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

The analysis for sample 38-SU (P1601688-003) was cancelled because the can was found to be leaking.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds and tentatively identified compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601688
Project ID: Aliso Canyon / 603287048

Date Received: 4/1/2016
Time Received: 08:56

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601688-001	Air	3/30/2016	09:05	CC00136	-3.24	3.92	X
P1601688-002	Air	3/30/2016	09:05	CC00156	-5.20	3.75	X
P1601688-004	Air	3/30/2016	11:27	CC00161	-3.82	3.50	X

AIR SAMPLING DATA SHEET

P1601688

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 03/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Houshness Dekeyan, Kurt Sugbort, Ivan Reyes	
	Rotameter: SHO-RATE Serial # : 000344	Expiration Date: 05-09-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75		Avg:					
33-SU ✓ (5 of 41)	START PSI -26 PSI	END PSI -4.0 PSI		Avg:	0927	905			SILONITE SN 1553 ADVANCE TECH SU ATL-00 153 -GUAGE SN AUG 04599 -REGULATOR SN F22 0526
(2) 33-SU-D ✓	START PSI -27 PSI	END PSI -8.5 PSI		Avg:	0928	905			AIR TORUS SN 12044/0000015000 -GUAGE SN AUG 03284 -REGULATOR SN F222085
(3) △ 38-SU ✓	START PSI -28 PSI	END PSI -10.5 PSI		Avg:	1032 1032	1104			SN 10594 CAN REGULATOR F213985
(4) X 37-SU-G ✓	END PSI -7 PSI			Avg:	1127	1127			SN 29-10621 CAN REGULATOR F221006

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods
* SUMMA CANISTER TUPLICATE ASSIGNED SAMPLE
△ TRANSCRIPTION ERROR ON THE TIME WAS INCORRECTLY RECORDED

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date: 3/31/16	Time: 1800	Received by:	Date: 3/31/16	Time: 1800		
Relinquished by:	Date: 4/1/16	Time: 836	Received by:	Date: 4/1/16	Time: 836		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		

Kate Aguilera

From: Meredith Church <mchurch@leightongroup.com>
Sent: Friday, April 01, 2016 8:43 AM
To: Kate Aguilera
Subject: COC Note, 4/1/16 TO-15 Summas

Kate,
A Public Health staff is delivering the summa canisters to your lab right now. His name is Josue Rosas. I (Meredith Church) checked in one group of the canisters and Jennifer Bobbiwash checked in the other group. We released the cans over to Josue for delivery at approximately 8:25 am this morning 4/1/16. He radioed in and asked if he needed to return for the signatures but I told him to go ahead and deliver to your lab and sign on the release signature line and that I would send an email to you notifying you of the chain of custody for drop off. Please include this note at the end of the COC in the lab report. Thank you!

Meredith Church
Leighton Consulting, Inc.

ALS Group: Click here to report this email as spam.

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601688

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/1/16 Date opened: 4/1/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601688-001.01	Canister					
P1601688-002.01	Canister					
P1601688-003.01	Canister					
P1601688-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P1601688-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00136

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.24 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.7**	0.81	0.23	**2.8**	0.47	0.13	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.81	0.28	**0.45**	0.16	0.056	
74-87-3	Chloromethane	**0.45**	0.32	0.23	**0.22**	0.16	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	0.31	ND	0.12	0.044	
75-01-4	Vinyl Chloride	ND	0.16	0.15	ND	0.063	0.060	
106-99-0	1,3-Butadiene	ND	0.32	0.23	ND	0.15	0.10	
74-83-9	Bromomethane	ND	0.32	0.15	ND	0.083	0.039	
75-00-3	Chloroethane	ND	0.32	0.14	ND	0.12	0.053	
64-17-5	Ethanol	**530**	8.1	1.3	**280**	4.3	0.69	
75-05-8	Acetonitrile	ND	0.81	0.29	ND	0.48	0.17	
107-02-8	Acrolein	**0.62**	3.2	0.28	**0.27**	1.4	0.12	**J**
67-64-1	Acetone	**12**	8.1	1.2	**5.2**	3.4	0.53	
75-69-4	Trichlorofluoromethane	**1.1**	0.16	0.092	**0.20**	0.029	0.016	
67-63-0	2-Propanol (Isopropyl Alcohol)	**7.8**	8.1	0.68	**3.2**	3.3	0.28	**J**
107-13-1	Acrylonitrile	ND	0.81	0.28	ND	0.37	0.13	
75-35-4	1,1-Dichloroethene	ND	0.16	0.15	ND	0.041	0.038	
75-09-2	Methylene Chloride	**17**	0.81	0.28	**5.0**	0.23	0.079	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.12	ND	0.052	0.039	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.16	0.13	**0.063**	0.021	0.017	
75-15-0	Carbon Disulfide	ND	8.1	0.24	ND	2.6	0.078	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.15	ND	0.041	0.037	
75-34-3	1,1-Dichloroethane	ND	0.16	0.13	ND	0.040	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.15	ND	0.045	0.042	
108-05-4	Vinyl Acetate	**1.4**	8.1	1.1	**0.40**	2.3	0.30	**J**
78-93-3	2-Butanone (MEK)	**1.0**	8.1	0.34	**0.35**	2.7	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00136

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.24 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.15	ND	0.041	0.038	
141-78-6	Ethyl Acetate	**16**	1.6	0.57	**4.5**	0.45	0.16	
110-54-3	n-Hexane	ND	0.81	0.24	ND	0.23	0.069	
67-66-3	Chloroform	ND	0.16	0.14	ND	0.033	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.81	0.32	ND	0.27	0.11	
107-06-2	1,2-Dichloroethane	**0.60**	0.16	0.10	**0.15**	0.040	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.12	ND	0.030	0.022	
71-43-2	Benzene	**0.35**	0.16	0.13	**0.11**	0.051	0.040	
56-23-5	Carbon Tetrachloride	**0.40**	0.16	0.14	**0.064**	0.026	0.022	
110-82-7	Cyclohexane	ND	1.6	0.47	ND	0.47	0.14	
78-87-5	1,2-Dichloropropane	ND	0.16	0.13	ND	0.035	0.029	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.016	
79-01-6	Trichloroethene	**0.23**	0.16	0.14	**0.043**	0.030	0.027	
123-91-1	1,4-Dioxane	ND	0.81	0.26	ND	0.22	0.072	
80-62-6	Methyl Methacrylate	ND	1.6	0.50	ND	0.40	0.12	
142-82-5	n-Heptane	ND	0.81	0.28	ND	0.20	0.067	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	0.23	ND	0.18	0.050	
108-10-1	4-Methyl-2-pentanone	ND	0.81	0.26	ND	0.20	0.063	
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	0.26	ND	0.18	0.057	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.13	ND	0.030	0.024	
108-88-3	Toluene	**0.92**	0.81	0.28	**0.24**	0.22	0.073	
591-78-6	2-Hexanone	ND	0.81	0.26	ND	0.20	0.063	
124-48-1	Dibromochloromethane	ND	0.16	0.14	ND	0.019	0.016	
106-93-4	1,2-Dibromoethane	ND	0.16	0.14	ND	0.021	0.018	
123-86-4	n-Butyl Acetate	**0.98**	0.81	0.26	**0.21**	0.17	0.055	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00136

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.24 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.81	0.29	ND	0.17	0.062	
127-18-4	Tetrachloroethene	ND	0.16	0.12	ND	0.024	0.017	
108-90-7	Chlorobenzene	ND	0.16	0.13	ND	0.035	0.029	
100-41-4	Ethylbenzene	ND	0.81	0.26	ND	0.19	0.060	
179601-23-1	m,p-Xylenes	ND	0.81	0.47	ND	0.19	0.11	
75-25-2	Bromoform	ND	0.81	0.24	ND	0.078	0.024	
100-42-5	Styrene	ND	0.81	0.24	ND	0.19	0.057	
95-47-6	o-Xylene	ND	0.81	0.24	ND	0.19	0.056	
111-84-2	n-Nonane	ND	0.81	0.24	ND	0.15	0.046	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.14	ND	0.024	0.020	
98-82-8	Cumene	ND	0.81	0.24	ND	0.16	0.049	
80-56-8	alpha-Pinene	**0.47**	0.81	0.23	**0.084**	0.15	0.041	**J**
103-65-1	n-Propylbenzene	ND	0.81	0.26	ND	0.16	0.053	
622-96-8	4-Ethyltoluene	ND	0.81	0.26	ND	0.16	0.053	
108-67-8	1,3,5-Trimethylbenzene	ND	0.81	0.26	ND	0.16	0.053	
95-63-6	1,2,4-Trimethylbenzene	ND	0.81	0.24	ND	0.16	0.049	
100-44-7	Benzyl Chloride	ND	0.81	0.18	ND	0.16	0.034	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.12	ND	0.027	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.16	0.12	ND	0.027	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.15	ND	0.027	0.025	
5989-27-5	d-Limonene	**1.5**	0.81	0.23	**0.26**	0.15	0.041	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.81	0.16	ND	0.084	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	0.26	ND	0.11	0.035	
91-20-3	Naphthalene	ND	0.81	0.29	ND	0.15	0.056	
87-68-3	Hexachlorobutadiene	ND	0.81	0.23	ND	0.076	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/30/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/1/16
Analyst:	Wida Ang	Date Analyzed:	4/5/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00136		

Initial Pressure (psig): -3.24 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.62

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.81	1,1-Difluoroethane	**100**	
10.14	1-Butanol	**27**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P1601688-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00156

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.20 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.6**	0.97	0.27	**2.7**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.97	0.33	**0.45**	0.20	0.067	
74-87-3	Chloromethane	**0.41**	0.39	0.27	**0.20**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.97	0.37	ND	0.14	0.053	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.076	0.072	
106-99-0	1,3-Butadiene	ND	0.39	0.27	ND	0.18	0.12	
74-83-9	Bromomethane	ND	0.39	0.18	ND	0.10	0.046	
75-00-3	Chloroethane	ND	0.39	0.17	ND	0.15	0.064	
64-17-5	Ethanol	**620**	9.7	1.6	**330**	5.2	0.82	
75-05-8	Acetonitrile	ND	0.97	0.35	ND	0.58	0.21	
107-02-8	Acrolein	**0.67**	3.9	0.33	**0.29**	1.7	0.14	**J**
67-64-1	Acetone	**11**	9.7	1.5	**4.6**	4.1	0.63	
75-69-4	Trichlorofluoromethane	**1.1**	0.19	0.11	**0.20**	0.035	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**7.9**	9.7	0.81	**3.2**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.97	0.33	ND	0.45	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.049	0.046	
75-09-2	Methylene Chloride	**17**	0.97	0.33	**5.0**	0.28	0.095	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.062	0.047	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.19	0.16	**0.063**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.7	0.29	ND	3.1	0.093	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.048	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.054	0.050	
108-05-4	Vinyl Acetate	**2.3**	9.7	1.3	**0.64**	2.8	0.36	**J**
78-93-3	2-Butanone (MEK)	**0.70**	9.7	0.41	**0.24**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P1601688-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00156

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.20 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
141-78-6	Ethyl Acetate	**23**	1.9	0.68	**6.5**	0.54	0.19	
110-54-3	n-Hexane	ND	0.97	0.29	ND	0.28	0.083	
67-66-3	Chloroform	ND	0.19	0.17	ND	0.040	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.97	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	**0.61**	0.19	0.12	**0.15**	0.048	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.036	0.026	
71-43-2	Benzene	**0.36**	0.19	0.15	**0.11**	0.061	0.048	
56-23-5	Carbon Tetrachloride	**0.42**	0.19	0.17	**0.067**	0.031	0.027	
110-82-7	Cyclohexane	ND	1.9	0.56	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.042	0.035	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.020	
79-01-6	Trichloroethene	**0.24**	0.19	0.17	**0.045**	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.97	0.31	ND	0.27	0.086	
80-62-6	Methyl Methacrylate	ND	1.9	0.60	ND	0.47	0.15	
142-82-5	n-Heptane	ND	0.97	0.33	ND	0.24	0.081	
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.97	0.31	ND	0.24	0.076	
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.16	ND	0.036	0.028	
108-88-3	Toluene	**0.91**	0.97	0.33	**0.24**	0.26	0.088	**J**
591-78-6	2-Hexanone	ND	0.97	0.31	ND	0.24	0.076	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.74**	0.97	0.31	**0.15**	0.20	0.065	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00156

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.20 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.97	0.35	ND	0.21	0.075	
127-18-4	Tetrachloroethene	ND	0.19	0.14	ND	0.029	0.021	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	ND	0.97	0.31	ND	0.22	0.071	
179601-23-1	m,p-Xylenes	ND	0.97	0.56	ND	0.22	0.13	
75-25-2	Bromoform	ND	0.97	0.29	ND	0.094	0.028	
100-42-5	Styrene	ND	0.97	0.29	ND	0.23	0.068	
95-47-6	o-Xylene	ND	0.97	0.29	ND	0.22	0.067	
111-84-2	n-Nonane	ND	0.97	0.29	ND	0.18	0.055	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.024	
98-82-8	Cumene	ND	0.97	0.29	ND	0.20	0.059	
80-56-8	alpha-Pinene	**0.46**	0.97	0.27	**0.082**	0.17	0.049	**J**
103-65-1	n-Propylbenzene	ND	0.97	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.97	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.97	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	ND	0.97	0.29	ND	0.20	0.059	
100-44-7	Benzyl Chloride	ND	0.97	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.19	0.15	ND	0.032	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**1.5**	0.97	0.27	**0.26**	0.17	0.049	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.97	0.19	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.97	0.35	ND	0.19	0.067	
87-68-3	Hexachlorobutadiene	ND	0.97	0.27	ND	0.091	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/30/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/1/16
Analyst:	Wida Ang	Date Analyzed:	4/5/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00156		

Initial Pressure (psig): -5.20 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.94

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.81	1,1-Difluoroethane	**100**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P1601688-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00161

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/3 - 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.82 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.6**	0.84	0.23	**2.1**	0.49	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.84	0.28	**0.40**	0.17	0.057	
74-87-3	Chloromethane	**0.60**	0.33	0.23	**0.29**	0.16	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	0.32	ND	0.12	0.045	
75-01-4	Vinyl Chloride	ND	0.17	0.16	ND	0.065	0.062	
106-99-0	1,3-Butadiene	ND	0.33	0.23	ND	0.15	0.11	
74-83-9	Bromomethane	ND	0.33	0.16	ND	0.086	0.040	
75-00-3	Chloroethane	ND	0.33	0.15	ND	0.13	0.055	
64-17-5	Ethanol	**10**	8.4	1.3	**5.6**	4.4	0.71	
75-05-8	Acetonitrile	ND	0.84	0.30	ND	0.50	0.18	
107-02-8	Acrolein	**0.46**	3.3	0.28	**0.20**	1.5	0.12	**J**
67-64-1	Acetone	**15**	8.4	1.3	**6.1**	3.5	0.54	
75-69-4	Trichlorofluoromethane	**1.0**	0.17	0.095	**0.18**	0.030	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.8**	8.4	0.70	**1.9**	3.4	0.29	**J**
107-13-1	Acrylonitrile	ND	0.84	0.28	ND	0.38	0.13	
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.042	0.039	
75-09-2	Methylene Chloride	**280**	8.4	2.8	**82**	2.4	0.82	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.053	0.041	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.17	0.13	**0.063**	0.022	0.017	
75-15-0	Carbon Disulfide	ND	8.4	0.25	ND	2.7	0.080	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.15	ND	0.042	0.038	
75-34-3	1,1-Dichloroethane	ND	0.17	0.13	ND	0.041	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.046	0.043	
108-05-4	Vinyl Acetate	ND	8.4	1.1	ND	2.4	0.31	
78-93-3	2-Butanone (MEK)	**2.2**	8.4	0.35	**0.74**	2.8	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P1601688-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00161

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/3 - 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.82 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.15	ND	0.042	0.039	
141-78-6	Ethyl Acetate	ND	1.7	0.58	ND	0.46	0.16	
110-54-3	n-Hexane	ND	0.84	0.25	ND	0.24	0.071	
67-66-3	Chloroform	ND	0.17	0.15	ND	0.034	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.84	0.33	ND	0.28	0.11	
107-06-2	1,2-Dichloroethane	ND	0.17	0.10	ND	0.041	0.026	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.12	ND	0.031	0.023	
71-43-2	Benzene	**0.37**	0.17	0.13	**0.12**	0.052	0.041	
56-23-5	Carbon Tetrachloride	**0.44**	0.17	0.14	**0.071**	0.027	0.023	
110-82-7	Cyclohexane	ND	1.7	0.48	ND	0.49	0.14	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.036	0.030	
75-27-4	Bromodichloromethane	ND	0.17	0.11	ND	0.025	0.017	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.031	0.028	
123-91-1	1,4-Dioxane	ND	0.84	0.27	ND	0.23	0.074	
80-62-6	Methyl Methacrylate	ND	1.7	0.52	ND	0.41	0.13	
142-82-5	n-Heptane	ND	0.84	0.28	ND	0.20	0.069	
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.23	ND	0.18	0.052	
108-10-1	4-Methyl-2-pentanone	ND	0.84	0.27	ND	0.20	0.065	
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.27	ND	0.18	0.059	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.13	ND	0.031	0.024	
108-88-3	Toluene	**0.67**	0.84	0.28	**0.18**	0.22	0.075	**J**
591-78-6	2-Hexanone	ND	0.84	0.27	ND	0.20	0.065	
124-48-1	Dibromochloromethane	ND	0.17	0.14	ND	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.14	ND	0.022	0.018	
123-86-4	n-Butyl Acetate	ND	0.84	0.27	ND	0.18	0.056	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00161

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/3 - 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.82 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.84	0.30	ND	0.18	0.064	
127-18-4	Tetrachloroethene	ND	0.17	0.12	ND	0.025	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.036	0.030	
100-41-4	Ethylbenzene	ND	0.84	0.27	ND	0.19	0.062	
179601-23-1	m,p-Xylenes	ND	0.84	0.48	ND	0.19	0.11	
75-25-2	Bromoform	ND	0.84	0.25	ND	0.081	0.024	
100-42-5	Styrene	ND	0.84	0.25	ND	0.20	0.059	
95-47-6	o-Xylene	ND	0.84	0.25	ND	0.19	0.058	
111-84-2	n-Nonane	**0.51**	0.84	0.25	**0.097**	0.16	0.048	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.14	ND	0.024	0.020	
98-82-8	Cumene	ND	0.84	0.25	ND	0.17	0.051	
80-56-8	alpha-Pinene	**1.8**	0.84	0.23	**0.32**	0.15	0.042	
103-65-1	n-Propylbenzene	ND	0.84	0.27	ND	0.17	0.054	
622-96-8	4-Ethyltoluene	ND	0.84	0.27	ND	0.17	0.054	
108-67-8	1,3,5-Trimethylbenzene	ND	0.84	0.27	ND	0.17	0.054	
95-63-6	1,2,4-Trimethylbenzene	ND	0.84	0.25	ND	0.17	0.051	
100-44-7	Benzyl Chloride	ND	0.84	0.18	ND	0.16	0.035	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.12	ND	0.028	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.17	0.13	ND	0.028	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.028	0.026	
5989-27-5	d-Limonene	**0.62**	0.84	0.23	**0.11**	0.15	0.042	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	0.17	ND	0.086	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.84	0.27	ND	0.11	0.036	
91-20-3	Naphthalene	ND	0.84	0.30	ND	0.16	0.057	
87-68-3	Hexachlorobutadiene	ND	0.84	0.23	ND	0.078	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P1601688-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/30/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/1/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/3 - 4/4/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	CC00161		

Initial Pressure (psig): -3.82 Final Pressure (psig): 3.50

Canister Dilution Factor: 1.67

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.61	Isobutane	**17**	
21.99	Unidentified Siloxane	**17**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160403-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/3/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160403-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/3/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160403-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/3/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160403-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/3/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160404-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160405-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160405-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601688

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/30/16
Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Received: 4/1/16
Analyst: Evelyn Alvarez/Wida Ang Date(s) Analyzed: 4/3 - 4/5/16
Sample Type: Canister(s)
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160403-MB	**97**	**100**	**96**	70-130	
	P160404-MB	**96**	**101**	**100**	70-130	
	P160405-MB	**102**	**98**	**102**	70-130	
	P160403-LCS	**97**	**98**	**101**	70-130	
	P160404-LCS	**94**	**98**	**102**	70-130	
	P160405-LCS	**99**	**93**	**104**	70-130	
	P1601688-001	**102**	**97**	**103**	70-130	
	P1601688-002	**103**	**98**	**103**	70-130	
	P1601688-004	**97**	**99**	**98**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160403-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/3/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**194**	**99**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**161**	**86**	65-117	
74-87-3	Chloromethane	200	**216**	**108**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**171**	**84**	65-122	
75-01-4	Vinyl Chloride	200	**198**	**99**	65-128	
106-99-0	1,3-Butadiene	206	**231**	**112**	62-143	
74-83-9	Bromomethane	202	**193**	**96**	65-130	
75-00-3	Chloroethane	200	**200**	**100**	69-126	
64-17-5	Ethanol	998	**1050**	**105**	57-126	
75-05-8	Acetonitrile	212	**216**	**102**	51-134	
107-02-8	Acrolein	214	**225**	**105**	55-146	
67-64-1	Acetone	1,080	**1190**	**110**	57-120	
75-69-4	Trichlorofluoromethane	216	**168**	**78**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**457**	**109**	59-129	
107-13-1	Acrylonitrile	212	**245**	**116**	64-136	
75-35-4	1,1-Dichloroethene	216	**214**	**99**	72-123	
75-09-2	Methylene Chloride	222	**201**	**91**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**238**	**109**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**202**	**92**	68-118	
75-15-0	Carbon Disulfide	210	**168**	**80**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**231**	**110**	69-129	
75-34-3	1,1-Dichloroethane	212	**209**	**99**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**198**	**92**	55-128	
108-05-4	Vinyl Acetate	1,040	**1180**	**113**	66-140	
78-93-3	2-Butanone (MEK)	220	**249**	**113**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160403-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/3/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**232**	**106**	65-125	
141-78-6	Ethyl Acetate	428	**516**	**121**	64-132	
110-54-3	n-Hexane	212	**217**	**102**	58-126	
67-66-3	Chloroform	224	**210**	**94**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**215**	**98**	64-123	
107-06-2	1,2-Dichloroethane	214	**197**	**92**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**184**	**88**	68-120	
71-43-2	Benzene	226	**213**	**94**	61-110	
56-23-5	Carbon Tetrachloride	230	**193**	**84**	65-137	
110-82-7	Cyclohexane	424	**426**	**100**	68-122	
78-87-5	1,2-Dichloropropane	216	**225**	**104**	67-122	
75-27-4	Bromodichloromethane	218	**209**	**96**	71-124	
79-01-6	Trichloroethene	216	**190**	**88**	71-121	
123-91-1	1,4-Dioxane	210	**238**	**113**	67-122	
80-62-6	Methyl Methacrylate	422	**476**	**113**	76-130	
142-82-5	n-Heptane	216	**218**	**101**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**221**	**106**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**266**	**121**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**228**	**109**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**214**	**99**	73-121	
108-88-3	Toluene	218	**200**	**92**	67-117	
591-78-6	2-Hexanone	220	**253**	**115**	59-128	
124-48-1	Dibromochloromethane	220	**212**	**96**	73-132	
106-93-4	1,2-Dibromoethane	218	**218**	**100**	73-128	
123-86-4	n-Butyl Acetate	226	**272**	**120**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160403-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/3/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**215**	**102**	67-124	
127-18-4	Tetrachloroethene	202	**191**	**95**	65-126	
108-90-7	Chlorobenzene	220	**203**	**92**	68-120	
100-41-4	Ethylbenzene	218	**209**	**96**	69-123	
179601-23-1	m,p-Xylenes	428	**420**	**98**	67-125	
75-25-2	Bromoform	228	**213**	**93**	68-153	
100-42-5	Styrene	222	**225**	**101**	68-132	
95-47-6	o-Xylene	210	**205**	**98**	67-124	
111-84-2	n-Nonane	204	**222**	**109**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**221**	**105**	72-128	
98-82-8	Cumene	208	**198**	**95**	67-124	
80-56-8	alpha-Pinene	212	**211**	**100**	67-129	
103-65-1	n-Propylbenzene	204	**203**	**100**	67-125	
622-96-8	4-Ethyltoluene	214	**219**	**102**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**205**	**96**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**218**	**100**	62-134	
100-44-7	Benzyl Chloride	220	**220**	**100**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**221**	**97**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**208**	**100**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**214**	**97**	62-134	
5989-27-5	d-Limonene	210	**237**	**113**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**199**	**91**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**198**	**86**	60-145	
91-20-3	Naphthalene	218	**184**	**84**	56-158	
87-68-3	Hexachlorobutadiene	230	**196**	**85**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**170**	**87**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**152**	**81**	65-117	
74-87-3	Chloromethane	200	**190**	**95**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**164**	**80**	65-122	
75-01-4	Vinyl Chloride	200	**177**	**89**	65-128	
106-99-0	1,3-Butadiene	206	**200**	**97**	62-143	
74-83-9	Bromomethane	202	**180**	**89**	65-130	
75-00-3	Chloroethane	200	**188**	**94**	69-126	
64-17-5	Ethanol	998	**916**	**92**	57-126	
75-05-8	Acetonitrile	212	**190**	**90**	51-134	
107-02-8	Acrolein	214	**205**	**96**	55-146	
67-64-1	Acetone	1,080	**1060**	**98**	57-120	
75-69-4	Trichlorofluoromethane	216	**161**	**75**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**409**	**98**	59-129	
107-13-1	Acrylonitrile	212	**220**	**104**	64-136	
75-35-4	1,1-Dichloroethene	216	**204**	**94**	72-123	
75-09-2	Methylene Chloride	222	**190**	**86**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**212**	**97**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**198**	**90**	68-118	
75-15-0	Carbon Disulfide	210	**157**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**187**	**87**	55-128	
108-05-4	Vinyl Acetate	1,040	**1100**	**106**	66-140	
78-93-3	2-Butanone (MEK)	220	**231**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**456**	**107**	64-132	
110-54-3	n-Hexane	212	**194**	**92**	58-126	
67-66-3	Chloroform	224	**196**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**200**	**91**	64-123	
107-06-2	1,2-Dichloroethane	214	**184**	**86**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**179**	**85**	68-120	
71-43-2	Benzene	226	**198**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**189**	**82**	65-137	
110-82-7	Cyclohexane	424	**399**	**94**	68-122	
78-87-5	1,2-Dichloropropane	216	**208**	**96**	67-122	
75-27-4	Bromodichloromethane	218	**199**	**91**	71-124	
79-01-6	Trichloroethene	216	**184**	**85**	71-121	
123-91-1	1,4-Dioxane	210	**227**	**108**	67-122	
80-62-6	Methyl Methacrylate	422	**457**	**108**	76-130	
142-82-5	n-Heptane	216	**204**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**208**	**100**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**244**	**111**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**216**	**103**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**206**	**95**	73-121	
108-88-3	Toluene	218	**193**	**89**	67-117	
591-78-6	2-Hexanone	220	**231**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**210**	**95**	73-132	
106-93-4	1,2-Dibromoethane	218	**215**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**202**	**96**	67-124	
127-18-4	Tetrachloroethene	202	**191**	**95**	65-126	
108-90-7	Chlorobenzene	220	**199**	**90**	68-120	
100-41-4	Ethylbenzene	218	**200**	**92**	69-123	
179601-23-1	m,p-Xylenes	428	**399**	**93**	67-125	
75-25-2	Bromoform	228	**211**	**93**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**201**	**99**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**208**	**99**	72-128	
98-82-8	Cumene	208	**190**	**91**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**210**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**194**	**91**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**202**	**93**	62-134	
100-44-7	Benzyl Chloride	220	**207**	**94**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**210**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**202**	**92**	62-134	
5989-27-5	d-Limonene	210	**213**	**101**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**191**	**88**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**188**	**82**	60-145	
91-20-3	Naphthalene	218	**172**	**79**	56-158	
87-68-3	Hexachlorobutadiene	230	**188**	**82**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**182**	**93**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**177**	**94**	65-117	
74-87-3	Chloromethane	200	**225**	**113**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**190**	**93**	65-122	
75-01-4	Vinyl Chloride	200	**218**	**109**	65-128	
106-99-0	1,3-Butadiene	206	**224**	**109**	62-143	
74-83-9	Bromomethane	202	**212**	**105**	65-130	
75-00-3	Chloroethane	200	**204**	**102**	69-126	
64-17-5	Ethanol	998	**982**	**98**	57-126	
75-05-8	Acetonitrile	212	**200**	**94**	51-134	
107-02-8	Acrolein	214	**209**	**98**	55-146	
67-64-1	Acetone	1,080	**949**	**88**	57-120	
75-69-4	Trichlorofluoromethane	216	**178**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**419**	**100**	59-129	
107-13-1	Acrylonitrile	212	**227**	**107**	64-136	
75-35-4	1,1-Dichloroethene	216	**220**	**102**	72-123	
75-09-2	Methylene Chloride	222	**197**	**89**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**247**	**113**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**207**	**94**	68-118	
75-15-0	Carbon Disulfide	210	**167**	**80**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**222**	**106**	69-129	
75-34-3	1,1-Dichloroethane	212	**202**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**206**	**95**	55-128	
108-05-4	Vinyl Acetate	1,040	**1140**	**110**	66-140	
78-93-3	2-Butanone (MEK)	220	**177**	**80**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160405-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**223**	**102**	65-125	
141-78-6	Ethyl Acetate	428	**434**	**101**	64-132	
110-54-3	n-Hexane	212	**164**	**77**	58-126	
67-66-3	Chloroform	224	**209**	**93**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**221**	**100**	64-123	
107-06-2	1,2-Dichloroethane	214	**206**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**216**	**103**	68-120	
71-43-2	Benzene	226	**206**	**91**	61-110	
56-23-5	Carbon Tetrachloride	230	**228**	**99**	65-137	
110-82-7	Cyclohexane	424	**405**	**96**	68-122	
78-87-5	1,2-Dichloropropane	216	**213**	**99**	67-122	
75-27-4	Bromodichloromethane	218	**234**	**107**	71-124	
79-01-6	Trichloroethene	216	**203**	**94**	71-121	
123-91-1	1,4-Dioxane	210	**243**	**116**	67-122	
80-62-6	Methyl Methacrylate	422	**427**	**101**	76-130	
142-82-5	n-Heptane	216	**199**	**92**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**223**	**107**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**235**	**107**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**238**	**113**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**225**	**104**	73-121	
108-88-3	Toluene	218	**164**	**75**	67-117	
591-78-6	2-Hexanone	220	**220**	**100**	59-128	
124-48-1	Dibromochloromethane	220	**231**	**105**	73-132	
106-93-4	1,2-Dibromoethane	218	**217**	**100**	73-128	
123-86-4	n-Butyl Acetate	226	**238**	**105**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601688

ALS Sample ID: P160405-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**190**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**200**	**91**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**394**	**92**	67-125	
75-25-2	Bromoform	228	**233**	**102**	68-153	
100-42-5	Styrene	222	**228**	**103**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**196**	**96**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**206**	**98**	72-128	
98-82-8	Cumene	208	**192**	**92**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**200**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**198**	**93**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**206**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**257**	**117**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**213**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**210**	**95**	62-134	
5989-27-5	d-Limonene	210	**217**	**103**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**235**	**108**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**221**	**96**	60-145	
91-20-3	Naphthalene	218	**215**	**99**	56-158	
87-68-3	Hexachlorobutadiene	230	**205**	**89**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2016. For your reference, these analyses have been assigned our service request number P1601689.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601689
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The Method Blank (MB) associated with the samples analyzed on March 2, 2016 contained low levels of Benzene above the Method Reporting Limit (MRL). However, the reported sample results associated with the MB in question were for dilutions of other compounds; therefore, the results have not been affected. No corrective action was necessary.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601689
Project ID: Aliso Canyon / 603287048

Date Received: 4/1/2016
Time Received: 08:56

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601689-001	Air	3/30/2016	08:55	CC00122	-0.26	3.89	X
P1601689-002	Air	3/30/2016	09:51	CC00123	-0.22	3.65	X
P1601689-003	Air	3/30/2016	11:01	CC00129	-0.43	3.94	X
P1601689-004	Air	3/30/2016	11:51	CC00154	-6.73	3.56	X

P1601689

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3/30/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Robert Vasquez / IT / SH / LHw

~~Gauge #: 3109~~ Retained: JM Summa can Serial #: 6L1287 **Expiration Date:**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							can#6L1287 gauge#20746
			Avg:						
7-SU-G	11	11			0917	0855	1418		-0.23 reading at start #0136 living room table ~~#3363~~ ~~told residential 8:40~~
			Avg:						
36-SU	11	11			1008	0951	1423		living room table #34014 #CC00123 #1825 -0.28 at start ~~told Diane arrive 9:38~~
			Avg:						
~~36-SU FB~~ 31-SU	11	11			1110	1101	1431		living room -0.29 at start gauge#10374 suma can#6L0028, CC00129 #8942
			Avg:						
34-SU	11	11			1205	1151	1426		Dining Room #5026 can#CC00154, ~~#1-1~~ #ATL00162 -0.27 at start
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 3/31/16	Time: 1757	Received by:	Date: 3/31/16	Time: 1807
Relinquished by:	Date: 4/1/16	Time: 0856	Received by:	Date: 4/1/16	Time: 0856
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Kate Aguilera

From: Meredith Church <mchurch@leightongroup.com>
Sent: Friday, April 01, 2016 8:43 AM
To: Kate Aguilera
Subject: COC Note, 4/1/16 TO-15 Summas

Kate,
A Public Health staff is delivering the summa canisters to your lab right now. His name is Josue Rosas. I (Meredith Church) checked in one group of the canisters and Jennifer Bobbiwash checked in the other group. We released the cans over to Josue for delivery at approximately 8:25 am this morning 4/1/16. He radioed in and asked if he needed to return for the signatures but I told him to go ahead and deliver to your lab and sign on the release signature line and that I would send an email to you notifying you of the chain of custody for drop off. Please include this note at the end of the COC in the lab report. Thank you!

Meredith Church
Leighton Consulting, Inc.

ALS Group: Click here to report this email as spam.

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601689

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/1/16 Date opened: 4/1/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601689-001.01	Canister					
P1601689-002.01	Canister					
P1601689-003.01	Canister					
P1601689-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00122

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16 & 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.89

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.8**	0.65	0.18	**1.0**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.65	0.22	**0.40**	0.13	0.044	
74-87-3	Chloromethane	**0.51**	0.26	0.18	**0.25**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	0.25	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.082	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.098	0.043	
64-17-5	Ethanol	**23**	6.5	1.0	**12**	3.4	0.55	
75-05-8	Acetonitrile	ND	0.65	0.23	ND	0.38	0.14	
107-02-8	Acrolein	**1.6**	2.6	0.22	**0.68**	1.1	0.096	**J**
67-64-1	Acetone	**15**	6.5	0.99	**6.1**	2.7	0.42	
75-69-4	Trichlorofluoromethane	**1.0**	0.13	0.074	**0.18**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.0**	6.5	0.54	**1.2**	2.6	0.22	**J**
107-13-1	Acrylonitrile	ND	0.65	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-09-2	Methylene Chloride	**280**	6.5	2.2	**79**	1.9	0.63	**B, D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.098	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.13	0.10	**0.063**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.5	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	**1.9**	6.5	0.84	**0.55**	1.8	0.24	**J**
78-93-3	2-Butanone (MEK)	**1.6**	6.5	0.27	**0.54**	2.2	0.092	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P1601689-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00122

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16 & 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.89

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	**13**	1.3	0.45	**3.6**	0.36	0.13	
110-54-3	n-Hexane	**0.26**	0.65	0.19	**0.074**	0.18	0.055	**J**
67-66-3	Chloroform	ND	0.13	0.11	ND	0.026	0.024	
109-99-9	Tetrahydrofuran (THF)	**0.80**	0.65	0.26	**0.27**	0.22	0.088	
107-06-2	1,2-Dichloroethane	**0.15**	0.13	0.080	**0.038**	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.024	0.018	
71-43-2	Benzene	**0.33**	0.13	0.10	**0.10**	0.040	0.032	
56-23-5	Carbon Tetrachloride	**0.39**	0.13	0.11	**0.062**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.088	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.65	0.21	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.32	0.098	
142-82-5	n-Heptane	**0.30**	0.65	0.22	**0.074**	0.16	0.054	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	ND	0.65	0.21	ND	0.16	0.050	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	0.21	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	**1.9**	0.65	0.22	**0.51**	0.17	0.058	
591-78-6	2-Hexanone	ND	0.65	0.21	ND	0.16	0.050	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	ND	0.65	0.21	ND	0.14	0.043	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P1601689-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00122

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16 & 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.89

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.65	0.23	ND	0.14	0.050	
127-18-4	Tetrachloroethene	**0.86**	0.13	0.093	**0.13**	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	ND	0.65	0.21	ND	0.15	0.048	
179601-23-1	m,p-Xylenes	ND	0.65	0.37	ND	0.15	0.086	
75-25-2	Bromoform	ND	0.65	0.19	ND	0.062	0.019	
100-42-5	Styrene	ND	0.65	0.19	ND	0.15	0.045	
95-47-6	o-Xylene	ND	0.65	0.19	ND	0.15	0.045	
111-84-2	n-Nonane	ND	0.65	0.19	ND	0.12	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.65	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**0.35**	0.65	0.18	**0.062**	0.12	0.032	**J**
103-65-1	n-Propylbenzene	ND	0.65	0.21	ND	0.13	0.042	
622-96-8	4-Ethyltoluene	ND	0.65	0.21	ND	0.13	0.042	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	0.21	ND	0.13	0.042	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	0.19	ND	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.65	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.098	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**0.57**	0.65	0.18	**0.10**	0.12	0.032	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	0.13	ND	0.067	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	0.21	ND	0.087	0.028	
91-20-3	Naphthalene	ND	0.65	0.23	ND	0.12	0.044	
87-68-3	Hexachlorobutadiene	ND	0.65	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00123

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.22 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	0.64	0.18	**1.4**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.64	0.22	**0.40**	0.13	0.044	
74-87-3	Chloromethane	**0.61**	0.25	0.18	**0.29**	0.12	0.086	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	0.24	ND	0.091	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.047	
106-99-0	1,3-Butadiene	ND	0.25	0.18	ND	0.11	0.080	
74-83-9	Bromomethane	ND	0.25	0.12	ND	0.065	0.030	
75-00-3	Chloroethane	ND	0.25	0.11	ND	0.096	0.042	
64-17-5	Ethanol	**620**	6.4	1.0	**330**	3.4	0.54	
75-05-8	Acetonitrile	**0.34**	0.64	0.23	**0.20**	0.38	0.14	**J**
107-02-8	Acrolein	**1.1**	2.5	0.22	**0.47**	1.1	0.094	**J**
67-64-1	Acetone	**24**	6.4	0.98	**10**	2.7	0.41	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.072	**0.19**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.1**	6.4	0.53	**2.5**	2.6	0.22	**J**
107-13-1	Acrylonitrile	ND	0.64	0.22	ND	0.29	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**76**	0.64	0.22	**22**	0.18	0.062	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.097	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.13	0.10	**0.065**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.4	0.19	ND	2.0	0.061	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.031	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.035	0.033	
108-05-4	Vinyl Acetate	ND	6.4	0.83	ND	1.8	0.23	
78-93-3	2-Butanone (MEK)	**1.4**	6.4	0.27	**0.47**	2.2	0.090	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P1601689-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00123

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.22 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
141-78-6	Ethyl Acetate	**8.8**	1.3	0.44	**2.5**	0.35	0.12	
110-54-3	n-Hexane	**0.88**	0.64	0.19	**0.25**	0.18	0.054	
67-66-3	Chloroform	**0.12**	0.13	0.11	**0.025**	0.026	0.023	**J**
109-99-9	Tetrahydrofuran (THF)	**1.4**	0.64	0.25	**0.46**	0.22	0.086	
107-06-2	1,2-Dichloroethane	**0.26**	0.13	0.079	**0.063**	0.031	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.094	ND	0.023	0.017	
71-43-2	Benzene	**0.74**	0.13	0.10	**0.23**	0.040	0.031	
56-23-5	Carbon Tetrachloride	**0.41**	0.13	0.11	**0.066**	0.020	0.017	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.027	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.086	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.64	0.20	ND	0.18	0.056	
80-62-6	Methyl Methacrylate	ND	1.3	0.39	ND	0.31	0.096	
142-82-5	n-Heptane	**0.49**	0.64	0.22	**0.12**	0.16	0.053	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	**1.0**	0.64	0.20	**0.25**	0.16	0.050	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	0.20	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.019	
108-88-3	Toluene	**3.0**	0.64	0.22	**0.81**	0.17	0.057	
591-78-6	2-Hexanone	ND	0.64	0.20	ND	0.16	0.050	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**2.5**	0.64	0.20	**0.54**	0.13	0.043	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00123

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.22 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.32**	0.64	0.23	**0.068**	0.14	0.049	**J**
127-18-4	Tetrachloroethene	**1.2**	0.13	0.091	**0.18**	0.019	0.013	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	**0.37**	0.64	0.20	**0.085**	0.15	0.047	**J**
179601-23-1	m,p-Xylenes	**1.2**	0.64	0.37	**0.27**	0.15	0.085	
75-25-2	Bromoform	ND	0.64	0.19	ND	0.061	0.018	
100-42-5	Styrene	**0.22**	0.64	0.19	**0.053**	0.15	0.045	**J**
95-47-6	o-Xylene	**0.43**	0.64	0.19	**0.099**	0.15	0.044	**J**
111-84-2	n-Nonane	**0.29**	0.64	0.19	**0.055**	0.12	0.036	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.64	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**0.82**	0.64	0.18	**0.15**	0.11	0.032	
103-65-1	n-Propylbenzene	ND	0.64	0.20	ND	0.13	0.041	
622-96-8	4-Ethyltoluene	ND	0.64	0.20	ND	0.13	0.041	
108-67-8	1,3,5-Trimethylbenzene	**0.21**	0.64	0.20	**0.042**	0.13	0.041	**J**
95-63-6	1,2,4-Trimethylbenzene	**0.73**	0.64	0.19	**0.15**	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.64	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.094	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	**1.5**	0.13	0.097	**0.25**	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**2.9**	0.64	0.18	**0.51**	0.11	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	0.13	ND	0.066	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.20	ND	0.086	0.027	
91-20-3	Naphthalene	ND	0.64	0.23	ND	0.12	0.044	
87-68-3	Hexachlorobutadiene	ND	0.64	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00129

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.43 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**5.4**	0.66	0.18	**3.1**	0.38	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.66	0.22	**0.40**	0.13	0.045	
74-87-3	Chloromethane	**0.52**	0.26	0.18	**0.25**	0.13	0.089	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	0.25	ND	0.094	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.051	0.049	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.083	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.068	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.099	0.043	
64-17-5	Ethanol	**170**	6.6	1.0	**93**	3.5	0.56	
75-05-8	Acetonitrile	ND	0.66	0.24	ND	0.39	0.14	
107-02-8	Acrolein	**1.7**	2.6	0.22	**0.76**	1.1	0.097	**J**
67-64-1	Acetone	**35**	6.6	1.0	**15**	2.8	0.42	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.075	**0.19**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**11**	6.6	0.55	**4.3**	2.7	0.22	
107-13-1	Acrylonitrile	ND	0.66	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
75-09-2	Methylene Chloride	**47**	0.66	0.22	**13**	0.19	0.064	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.042	0.032	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.13	0.10	**0.067**	0.017	0.014	
75-15-0	Carbon Disulfide	ND	6.6	0.20	ND	2.1	0.063	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.034	
108-05-4	Vinyl Acetate	**3.5**	6.6	0.85	**0.98**	1.9	0.24	**J**
78-93-3	2-Butanone (MEK)	**2.5**	6.6	0.28	**0.86**	2.2	0.093	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00129

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.43 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	**5.0**	1.3	0.46	**1.4**	0.36	0.13	
110-54-3	n-Hexane	ND	0.66	0.20	ND	0.19	0.056	
67-66-3	Chloroform	**0.23**	0.13	0.12	**0.046**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.66	0.26	ND	0.22	0.089	
107-06-2	1,2-Dichloroethane	**0.21**	0.13	0.081	**0.053**	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.097	ND	0.024	0.018	
71-43-2	Benzene	**0.40**	0.13	0.10	**0.12**	0.041	0.032	
56-23-5	Carbon Tetrachloride	**0.40**	0.13	0.11	**0.064**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.38	ND	0.38	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.024	
75-27-4	Bromodichloromethane	ND	0.13	0.089	ND	0.020	0.013	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.024	0.022	
123-91-1	1,4-Dioxane	ND	0.66	0.21	ND	0.18	0.058	
80-62-6	Methyl Methacrylate	**1.1**	1.3	0.41	**0.27**	0.32	0.099	**J**
142-82-5	n-Heptane	ND	0.66	0.22	ND	0.16	0.054	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	**0.70**	0.66	0.21	**0.17**	0.16	0.051	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	0.21	ND	0.14	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	**1.2**	0.66	0.22	**0.32**	0.17	0.059	
591-78-6	2-Hexanone	**0.39**	0.66	0.21	**0.096**	0.16	0.051	**J**
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**0.57**	0.66	0.21	**0.12**	0.14	0.044	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P1601689-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00129

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.43 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	0.24	ND	0.14	0.050	
127-18-4	Tetrachloroethene	ND	0.13	0.094	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.024	
100-41-4	Ethylbenzene	ND	0.66	0.21	ND	0.15	0.048	
179601-23-1	m,p-Xylenes	**0.60**	0.66	0.38	**0.14**	0.15	0.087	**J**
75-25-2	Bromoform	ND	0.66	0.20	ND	0.063	0.019	
100-42-5	Styrene	ND	0.66	0.20	ND	0.15	0.046	
95-47-6	o-Xylene	**0.20**	0.66	0.20	**0.045**	0.15	0.045	**J**
111-84-2	n-Nonane	ND	0.66	0.20	ND	0.12	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.66	0.20	ND	0.13	0.040	
80-56-8	alpha-Pinene	**0.31**	0.66	0.18	**0.056**	0.12	0.033	**J**
103-65-1	n-Propylbenzene	ND	0.66	0.21	ND	0.13	0.043	
622-96-8	4-Ethyltoluene	ND	0.66	0.21	ND	0.13	0.043	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	0.21	ND	0.13	0.043	
95-63-6	1,2,4-Trimethylbenzene	ND	0.66	0.20	ND	0.13	0.040	
100-44-7	Benzyl Chloride	ND	0.66	0.14	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.097	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	**0.11**	0.13	0.10	**0.019**	0.022	0.017	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.020	
5989-27-5	d-Limonene	**2.2**	0.66	0.18	**0.39**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.66	0.13	ND	0.068	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.66	0.21	ND	0.088	0.028	
91-20-3	Naphthalene	ND	0.66	0.24	ND	0.13	0.045	
87-68-3	Hexachlorobutadiene	ND	0.66	0.18	ND	0.061	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P1601689-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/30/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/1/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/4/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00129		

Initial Pressure (psig): -0.43 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.31

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.61	Isobutane	**120**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00154

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.56

Canister Dilution Factor: 2.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.6**	1.1	0.32	**0.92**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.1	0.39	**0.40**	0.23	0.079	
74-87-3	Chloromethane	**0.53**	0.46	0.32	**0.26**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.44	ND	0.16	0.062	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.090	0.085	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.14	
74-83-9	Bromomethane	ND	0.46	0.21	ND	0.12	0.055	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.17	0.076	
64-17-5	Ethanol	**17**	11	1.8	**9.0**	6.1	0.97	
75-05-8	Acetonitrile	ND	1.1	0.41	ND	0.68	0.25	
107-02-8	Acrolein	**0.65**	4.6	0.39	**0.28**	2.0	0.17	**J**
67-64-1	Acetone	**10**	11	1.8	**4.3**	4.8	0.74	**J**
75-69-4	Trichlorofluoromethane	**1.0**	0.23	0.13	**0.18**	0.041	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.0**	11	0.96	**0.82**	4.7	0.39	**J**
107-13-1	Acrylonitrile	ND	1.1	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
75-09-2	Methylene Chloride	**110**	1.1	0.39	**32**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.073	0.056	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.23	0.18	**0.059**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	11	0.34	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.064	0.059	
108-05-4	Vinyl Acetate	ND	11	1.5	ND	3.3	0.42	
78-93-3	2-Butanone (MEK)	**0.68**	11	0.48	**0.23**	3.9	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P1601689-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00154

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.56

Canister Dilution Factor: 2.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
141-78-6	Ethyl Acetate	**4.5**	2.3	0.80	**1.2**	0.64	0.22	
110-54-3	n-Hexane	**0.55**	1.1	0.34	**0.16**	0.32	0.097	**J**
67-66-3	Chloroform	ND	0.23	0.20	ND	0.047	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.46	ND	0.39	0.16	
107-06-2	1,2-Dichloroethane	ND	0.23	0.14	ND	0.057	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**1.1**	0.23	0.18	**0.35**	0.072	0.057	
56-23-5	Carbon Tetrachloride	**0.38**	0.23	0.20	**0.060**	0.036	0.031	
110-82-7	Cyclohexane	ND	2.3	0.66	ND	0.67	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.041	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.034	0.023	
79-01-6	Trichloroethene	ND	0.23	0.20	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.1	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.71	ND	0.56	0.17	
142-82-5	n-Heptane	**0.41**	1.1	0.39	**0.10**	0.28	0.095	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.32	ND	0.25	0.071	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.37	ND	0.28	0.089	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.37	ND	0.25	0.081	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.034	
108-88-3	Toluene	**2.0**	1.1	0.39	**0.54**	0.30	0.10	
591-78-6	2-Hexanone	ND	1.1	0.37	ND	0.28	0.089	
124-48-1	Dibromochloromethane	ND	0.23	0.19	ND	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.19	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**2.2**	1.1	0.37	**0.46**	0.24	0.077	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P1601689-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00154

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.56

Canister Dilution Factor: 2.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.41	ND	0.25	0.088	
127-18-4	Tetrachloroethene	ND	0.23	0.16	ND	0.034	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.041	
100-41-4	Ethylbenzene	ND	1.1	0.37	ND	0.26	0.084	
179601-23-1	m,p-Xylenes	**0.98**	1.1	0.66	**0.22**	0.26	0.15	**J**
75-25-2	Bromoform	ND	1.1	0.34	ND	0.11	0.033	
100-42-5	Styrene	ND	1.1	0.34	ND	0.27	0.081	
95-47-6	o-Xylene	**0.35**	1.1	0.34	**0.082**	0.26	0.079	**J**
111-84-2	n-Nonane	ND	1.1	0.34	ND	0.22	0.066	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.033	0.028	
98-82-8	Cumene	ND	1.1	0.34	ND	0.23	0.070	
80-56-8	alpha-Pinene	**0.48**	1.1	0.32	**0.086**	0.21	0.058	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.37	ND	0.23	0.075	
622-96-8	4-Ethyltoluene	ND	1.1	0.37	ND	0.23	0.075	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.37	ND	0.23	0.075	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	0.34	ND	0.23	0.070	
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.035	
5989-27-5	d-Limonene	**0.93**	1.1	0.32	**0.17**	0.21	0.058	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.23	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.37	ND	0.15	0.049	
91-20-3	Naphthalene	ND	1.1	0.41	ND	0.22	0.079	
87-68-3	Hexachlorobutadiene	ND	1.1	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160402-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.19**	0.50	0.17	**0.054**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	**0.23**	0.10	0.079	**0.070**	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	**0.39**	1.0	0.29	**0.11**	0.29	0.084	**J**
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	**0.24**	0.50	0.17	**0.064**	0.13	0.045	**J**
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160404-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160404-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601689

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 3/30/16
Analyst: Evelyn Alvarez Date(s) Received: 4/1/16
Sample Type: Canister(s) Date(s) Analyzed: 4/2 - 4/5/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160402-MB	**97**	**101**	**99**	70-130	
P160404-MB	**96**	**101**	**100**	70-130	
P160405-MB	**98**	**100**	**97**	70-130	
P160402-LCS	**94**	**98**	**101**	70-130	
P160404-LCS	**94**	**98**	**102**	70-130	
P160405-LCS	**97**	**98**	**100**	70-130	
P1601689-001	**98**	**100**	**98**	70-130	
P1601689-002	**98**	**98**	**99**	70-130	
P1601689-003	**98**	**99**	**99**	70-130	
P1601689-004	**97**	**99**	**98**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**158**	**84**	65-117	
74-87-3	Chloromethane	200	**200**	**100**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**168**	**82**	65-122	
75-01-4	Vinyl Chloride	200	**182**	**91**	65-128	
106-99-0	1,3-Butadiene	206	**212**	**103**	62-143	
74-83-9	Bromomethane	202	**181**	**90**	65-130	
75-00-3	Chloroethane	200	**197**	**99**	69-126	
64-17-5	Ethanol	998	**958**	**96**	57-126	
75-05-8	Acetonitrile	212	**198**	**93**	51-134	
107-02-8	Acrolein	214	**212**	**99**	55-146	
67-64-1	Acetone	1,080	**1080**	**100**	57-120	
75-69-4	Trichlorofluoromethane	216	**166**	**77**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**424**	**101**	59-129	
107-13-1	Acrylonitrile	212	**229**	**108**	64-136	
75-35-4	1,1-Dichloroethene	216	**210**	**97**	72-123	
75-09-2	Methylene Chloride	222	**194**	**87**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**220**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**203**	**92**	68-118	
75-15-0	Carbon Disulfide	210	**161**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**222**	**106**	69-129	
75-34-3	1,1-Dichloroethane	212	**199**	**94**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**193**	**89**	55-128	
108-05-4	Vinyl Acetate	1,040	**1100**	**106**	66-140	
78-93-3	2-Butanone (MEK)	220	**238**	**108**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**220**	**101**	65-125	
141-78-6	Ethyl Acetate	428	**461**	**108**	64-132	
110-54-3	n-Hexane	212	**198**	**93**	58-126	
67-66-3	Chloroform	224	**201**	**90**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**206**	**94**	64-123	
107-06-2	1,2-Dichloroethane	214	**189**	**88**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**182**	**87**	68-120	
71-43-2	Benzene	226	**199**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**193**	**84**	65-137	
110-82-7	Cyclohexane	424	**405**	**96**	68-122	
78-87-5	1,2-Dichloropropane	216	**212**	**98**	67-122	
75-27-4	Bromodichloromethane	218	**202**	**93**	71-124	
79-01-6	Trichloroethene	216	**188**	**87**	71-121	
123-91-1	1,4-Dioxane	210	**229**	**109**	67-122	
80-62-6	Methyl Methacrylate	422	**463**	**110**	76-130	
142-82-5	n-Heptane	216	**209**	**97**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**212**	**102**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**249**	**113**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**220**	**105**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**208**	**96**	73-121	
108-88-3	Toluene	218	**197**	**90**	67-117	
591-78-6	2-Hexanone	220	**237**	**108**	59-128	
124-48-1	Dibromochloromethane	220	**213**	**97**	73-132	
106-93-4	1,2-Dibromoethane	218	**218**	**100**	73-128	
123-86-4	n-Butyl Acetate	226	**253**	**112**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**206**	**98**	67-124	
127-18-4	Tetrachloroethene	202	**195**	**97**	65-126	
108-90-7	Chlorobenzene	220	**203**	**92**	68-120	
100-41-4	Ethylbenzene	218	**204**	**94**	69-123	
179601-23-1	m,p-Xylenes	428	**404**	**94**	67-125	
75-25-2	Bromoform	228	**214**	**94**	68-153	
100-42-5	Styrene	222	**220**	**99**	68-132	
95-47-6	o-Xylene	210	**198**	**94**	67-124	
111-84-2	n-Nonane	204	**204**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**209**	**100**	72-128	
98-82-8	Cumene	208	**193**	**93**	67-124	
80-56-8	alpha-Pinene	212	**206**	**97**	67-129	
103-65-1	n-Propylbenzene	204	**195**	**96**	67-125	
622-96-8	4-Ethyltoluene	214	**210**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**197**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**203**	**93**	62-134	
100-44-7	Benzyl Chloride	220	**208**	**95**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**212**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**203**	**98**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**204**	**93**	62-134	
5989-27-5	d-Limonene	210	**218**	**104**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**195**	**89**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**192**	**83**	60-145	
91-20-3	Naphthalene	218	**174**	**80**	56-158	
87-68-3	Hexachlorobutadiene	230	**192**	**83**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**170**	**87**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**152**	**81**	65-117	
74-87-3	Chloromethane	200	**190**	**95**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**164**	**80**	65-122	
75-01-4	Vinyl Chloride	200	**177**	**89**	65-128	
106-99-0	1,3-Butadiene	206	**200**	**97**	62-143	
74-83-9	Bromomethane	202	**180**	**89**	65-130	
75-00-3	Chloroethane	200	**188**	**94**	69-126	
64-17-5	Ethanol	998	**916**	**92**	57-126	
75-05-8	Acetonitrile	212	**190**	**90**	51-134	
107-02-8	Acrolein	214	**205**	**96**	55-146	
67-64-1	Acetone	1,080	**1060**	**98**	57-120	
75-69-4	Trichlorofluoromethane	216	**161**	**75**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**409**	**98**	59-129	
107-13-1	Acrylonitrile	212	**220**	**104**	64-136	
75-35-4	1,1-Dichloroethene	216	**204**	**94**	72-123	
75-09-2	Methylene Chloride	222	**190**	**86**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**212**	**97**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**198**	**90**	68-118	
75-15-0	Carbon Disulfide	210	**157**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**187**	**87**	55-128	
108-05-4	Vinyl Acetate	1,040	**1100**	**106**	66-140	
78-93-3	2-Butanone (MEK)	220	**231**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**456**	**107**	64-132	
110-54-3	n-Hexane	212	**194**	**92**	58-126	
67-66-3	Chloroform	224	**196**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**200**	**91**	64-123	
107-06-2	1,2-Dichloroethane	214	**184**	**86**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**179**	**85**	68-120	
71-43-2	Benzene	226	**198**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**189**	**82**	65-137	
110-82-7	Cyclohexane	424	**399**	**94**	68-122	
78-87-5	1,2-Dichloropropane	216	**208**	**96**	67-122	
75-27-4	Bromodichloromethane	218	**199**	**91**	71-124	
79-01-6	Trichloroethene	216	**184**	**85**	71-121	
123-91-1	1,4-Dioxane	210	**227**	**108**	67-122	
80-62-6	Methyl Methacrylate	422	**457**	**108**	76-130	
142-82-5	n-Heptane	216	**204**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**208**	**100**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**244**	**111**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**216**	**103**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**206**	**95**	73-121	
108-88-3	Toluene	218	**193**	**89**	67-117	
591-78-6	2-Hexanone	220	**231**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**210**	**95**	73-132	
106-93-4	1,2-Dibromoethane	218	**215**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689

ALS Sample ID: P160404-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**202**	**96**	67-124	
127-18-4	Tetrachloroethene	202	**191**	**95**	65-126	
108-90-7	Chlorobenzene	220	**199**	**90**	68-120	
100-41-4	Ethylbenzene	218	**200**	**92**	69-123	
179601-23-1	m,p-Xylenes	428	**399**	**93**	67-125	
75-25-2	Bromoform	228	**211**	**93**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**201**	**99**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**208**	**99**	72-128	
98-82-8	Cumene	208	**190**	**91**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**210**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**194**	**91**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**202**	**93**	62-134	
100-44-7	Benzyl Chloride	220	**207**	**94**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**210**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**202**	**92**	62-134	
5989-27-5	d-Limonene	210	**213**	**101**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**191**	**88**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**188**	**82**	60-145	
91-20-3	Naphthalene	218	**172**	**79**	56-158	
87-68-3	Hexachlorobutadiene	230	**188**	**82**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**187**	**95**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**159**	**85**	65-117	
74-87-3	Chloromethane	200	**209**	**105**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**168**	**82**	65-122	
75-01-4	Vinyl Chloride	200	**190**	**95**	65-128	
106-99-0	1,3-Butadiene	206	**215**	**104**	62-143	
74-83-9	Bromomethane	202	**186**	**92**	65-130	
75-00-3	Chloroethane	200	**193**	**97**	69-126	
64-17-5	Ethanol	998	**1010**	**101**	57-126	
75-05-8	Acetonitrile	212	**209**	**99**	51-134	
107-02-8	Acrolein	214	**219**	**102**	55-146	
67-64-1	Acetone	1,080	**1130**	**105**	57-120	
75-69-4	Trichlorofluoromethane	216	**166**	**77**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**444**	**106**	59-129	
107-13-1	Acrylonitrile	212	**237**	**112**	64-136	
75-35-4	1,1-Dichloroethene	216	**211**	**98**	72-123	
75-09-2	Methylene Chloride	222	**196**	**88**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**233**	**107**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**200**	**91**	68-118	
75-15-0	Carbon Disulfide	210	**165**	**79**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**227**	**108**	69-129	
75-34-3	1,1-Dichloroethane	212	**204**	**96**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**196**	**91**	55-128	
108-05-4	Vinyl Acetate	1,040	**1140**	**110**	66-140	
78-93-3	2-Butanone (MEK)	220	**243**	**110**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**227**	**104**	65-125	
141-78-6	Ethyl Acetate	428	**490**	**114**	64-132	
110-54-3	n-Hexane	212	**210**	**99**	58-126	
67-66-3	Chloroform	224	**204**	**91**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**211**	**96**	64-123	
107-06-2	1,2-Dichloroethane	214	**193**	**90**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**181**	**86**	68-120	
71-43-2	Benzene	226	**204**	**90**	61-110	
56-23-5	Carbon Tetrachloride	230	**190**	**83**	65-137	
110-82-7	Cyclohexane	424	**410**	**97**	68-122	
78-87-5	1,2-Dichloropropane	216	**218**	**101**	67-122	
75-27-4	Bromodichloromethane	218	**204**	**94**	71-124	
79-01-6	Trichloroethene	216	**185**	**86**	71-121	
123-91-1	1,4-Dioxane	210	**230**	**110**	67-122	
80-62-6	Methyl Methacrylate	422	**463**	**110**	76-130	
142-82-5	n-Heptane	216	**212**	**98**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**214**	**103**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**255**	**116**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**223**	**106**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**208**	**96**	73-121	
108-88-3	Toluene	218	**194**	**89**	67-117	
591-78-6	2-Hexanone	220	**243**	**110**	59-128	
124-48-1	Dibromochloromethane	220	**208**	**95**	73-132	
106-93-4	1,2-Dibromoethane	218	**213**	**98**	73-128	
123-86-4	n-Butyl Acetate	226	**261**	**115**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601689
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**209**	**100**	67-124	
127-18-4	Tetrachloroethene	202	**188**	**93**	65-126	
108-90-7	Chlorobenzene	220	**198**	**90**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**402**	**94**	67-125	
75-25-2	Bromoform	228	**206**	**90**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**197**	**94**	67-124	
111-84-2	n-Nonane	204	**211**	**103**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**211**	**100**	72-128	
98-82-8	Cumene	208	**191**	**92**	67-124	
80-56-8	alpha-Pinene	212	**205**	**97**	67-129	
103-65-1	n-Propylbenzene	204	**195**	**96**	67-125	
622-96-8	4-Ethyltoluene	214	**210**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**196**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**205**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**210**	**95**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**210**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**202**	**92**	62-134	
5989-27-5	d-Limonene	210	**224**	**107**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**191**	**88**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**189**	**82**	60-145	
91-20-3	Naphthalene	218	**173**	**79**	56-158	
87-68-3	Hexachlorobutadiene	230	**188**	**82**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2016. For your reference, these analyses have been assigned our service request number P1601690.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 9:51 am, Apr 05, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601690
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601690
Project ID: Aliso Canyon / 603287048

Date Received: 4/1/2016
Time Received: 08:56

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601690-001	Air	3/30/2016	11:00	CC00158	-4.23	3.04	X
P1601690-002	Air	3/30/2016	11:32	CC00131	-1.64	3.72	X
P1601690-003	Air	3/30/2016	13:51	CC00155	-4.69	3.74	X
P1601690-004	Air	3/30/2016	14:17	CC00127	-4.69	3.95	X
P1601690-005	Air	3/30/2016	15:38	CC00132	-5.62	3.88	X
P1601690-006	Air	3/30/2016	16:12	CC00130	-5.58	3.64	X

AIR SAMPLING DATA SHEET

P1601696

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 03/30/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Howard Bolden / Kim Garcia / Juan Mata
	Rotameter: **Serial # :**	**Expiration Date:**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75		Avg:					
(1) 37-SU-EXT ✓	-30 PSI	END PSI -7.5 ✓	4.68	Avg:	1123	1100			Reg # S/N 40239 Can S/N 4958 CAN ATL 03119 Airtoxics Extra / Calibrated
(2) 91-SU ✓	-28 PSI	END PSI -1.5		Avg:	1240	1132			Reg # S/N AirToxics 40453 AirToxics S/N Barcode 0002643 " " 31154
(3) 10-SU ✓	-29 PSI	END PSI -9.0		Avg:	1351	1351			Reg S/N 30827 AirToxics CAN ATL 03204
(4) 48-SU ✓	-28 PSI	END PSI -14		Avg:	1447	1417			AIRTOXICS 0002605 SCIENTIFIC INSTRUMENTAL 35289 AIRTOXICS 20450 Flow Control

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 3/31/16	Time: 1800	Received by:	Date: 3/31/16	Time: 1800
Relinquished by:	Date: 4/1/16	Time: 0856	Received by:	Date: 4/1/16	Time: 0817
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

AIR SAMPLING DATA SHEET

P160/690

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 03/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Hannah DeKeyser / Kat Beutel / Jim Myers	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
78-SU ✓	Start Pressure -28 PSI	END PSI -7 PSI			1537	1536			Sample ID: 74757 Tedlar 1850 Restek SN FCR0067 Living Room
			Avg:						
57-SU ✓	START PSI -29.5 PSI	END PSI -11 PSI			1625	1612			AIR TOXICS 001014 CANISTER RESTEK FCR00080
			Avg:						
			Avg:						
			Avg:						

(6 of 33) (1)

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Jim Myers	Date: 3/31/16	Time: 1800	Received by: Meredith Church	Date: 3/31/16	Time: 1800
Relinquished by:	Date: 4/1/16	Time: 0856	Received by:	Date: 4/1/16	Time: 0856
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Kate Aguilera

From: Meredith Church <mchurch@leightongroup.com>
Sent: Friday, April 01, 2016 8:43 AM
To: Kate Aguilera
Subject: COC Note, 4/1/16 TO-15 Summas

Kate,
A Public Health staff is delivering the summa canisters to your lab right now. His name is Josue Rosas. I (Meredith Church) checked in one group of the canisters and Jennifer Bobbiwash checked in the other group. We released the cans over to Josue for delivery at approximately 8:25 am this morning 4/1/16. He radioed in and asked if he needed to return for the signatures but I told him to go ahead and deliver to your lab and sign on the release signature line and that I would send an email to you notifying you of the chain of custody for drop off. Please include this note at the end of the COC in the lab report. Thank you!

Meredith Church
Leighton Consulting, Inc.

ALS Group: Click here to report this email as spam.

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601690

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/1/16 Date opened: 4/1/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601690-001.01	Canister					
P1601690-002.01	Canister					
P1601690-003.01	Canister					
P1601690-004.01	Canister					
P1601690-005.01	Canister					
P1601690-006.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00158

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.23 Final Pressure (psig): 3.04

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**0.45**	0.85	0.24	**0.26**	0.49	0.14	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.85	0.29	**0.42**	0.17	0.058	
74-87-3	Chloromethane	**0.50**	0.34	0.24	**0.24**	0.16	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	0.32	ND	0.12	0.046	
75-01-4	Vinyl Chloride	ND	0.17	0.16	ND	0.066	0.063	
106-99-0	1,3-Butadiene	ND	0.34	0.24	ND	0.15	0.11	
74-83-9	Bromomethane	ND	0.34	0.16	ND	0.087	0.040	
75-00-3	Chloroethane	ND	0.34	0.15	ND	0.13	0.056	
64-17-5	Ethanol	**4.7**	8.5	1.4	**2.5**	4.5	0.72	**J**
75-05-8	Acetonitrile	ND	0.85	0.30	ND	0.50	0.18	
107-02-8	Acrolein	ND	3.4	0.29	ND	1.5	0.13	
67-64-1	Acetone	**3.7**	8.5	1.3	**1.6**	3.6	0.55	**J**
75-69-4	Trichlorofluoromethane	**1.1**	0.17	0.096	**0.19**	0.030	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	8.5	0.71	ND	3.4	0.29	
107-13-1	Acrylonitrile	ND	0.85	0.29	ND	0.39	0.13	
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.043	0.040	
75-09-2	Methylene Chloride	**9.5**	0.85	0.29	**2.7**	0.24	0.083	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.054	0.041	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.17	0.14	**0.063**	0.022	0.018	
75-15-0	Carbon Disulfide	ND	8.5	0.25	ND	2.7	0.081	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.15	ND	0.043	0.039	
75-34-3	1,1-Dichloroethane	ND	0.17	0.13	ND	0.042	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.047	0.044	
108-05-4	Vinyl Acetate	ND	8.5	1.1	ND	2.4	0.31	
78-93-3	2-Butanone (MEK)	**0.41**	8.5	0.35	**0.14**	2.9	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00158

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.23 Final Pressure (psig): 3.04

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.16	ND	0.043	0.039	
141-78-6	Ethyl Acetate	**1.4**	1.7	0.59	**0.39**	0.47	0.16	**J**
110-54-3	n-Hexane	ND	0.85	0.25	ND	0.24	0.072	
67-66-3	Chloroform	ND	0.17	0.15	ND	0.035	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.85	0.34	ND	0.29	0.11	
107-06-2	1,2-Dichloroethane	ND	0.17	0.10	ND	0.042	0.026	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.13	ND	0.031	0.023	
71-43-2	Benzene	**0.28**	0.17	0.13	**0.088**	0.053	0.042	
56-23-5	Carbon Tetrachloride	**0.43**	0.17	0.15	**0.069**	0.027	0.023	
110-82-7	Cyclohexane	ND	1.7	0.49	ND	0.49	0.14	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.037	0.030	
75-27-4	Bromodichloromethane	ND	0.17	0.11	ND	0.025	0.017	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.031	0.028	
123-91-1	1,4-Dioxane	ND	0.85	0.27	ND	0.23	0.075	
80-62-6	Methyl Methacrylate	ND	1.7	0.52	ND	0.41	0.13	
142-82-5	n-Heptane	ND	0.85	0.29	ND	0.21	0.070	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.24	ND	0.19	0.052	
108-10-1	4-Methyl-2-pentanone	ND	0.85	0.27	ND	0.21	0.066	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.27	ND	0.19	0.060	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.14	ND	0.031	0.025	
108-88-3	Toluene	**0.30**	0.85	0.29	**0.080**	0.22	0.076	**J**
591-78-6	2-Hexanone	ND	0.85	0.27	ND	0.21	0.066	
124-48-1	Dibromochloromethane	ND	0.17	0.14	ND	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.14	ND	0.022	0.019	
123-86-4	n-Butyl Acetate	ND	0.85	0.27	ND	0.18	0.057	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00158

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.23 Final Pressure (psig): 3.04

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.85	0.30	ND	0.18	0.065	
127-18-4	Tetrachloroethene	ND	0.17	0.12	ND	0.025	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.037	0.030	
100-41-4	Ethylbenzene	ND	0.85	0.27	ND	0.19	0.062	
179601-23-1	m,p-Xylenes	ND	0.85	0.49	ND	0.19	0.11	
75-25-2	Bromoform	ND	0.85	0.25	ND	0.082	0.025	
100-42-5	Styrene	ND	0.85	0.25	ND	0.20	0.060	
95-47-6	o-Xylene	ND	0.85	0.25	ND	0.19	0.058	
111-84-2	n-Nonane	ND	0.85	0.25	ND	0.16	0.048	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.14	ND	0.025	0.021	
98-82-8	Cumene	ND	0.85	0.25	ND	0.17	0.052	
80-56-8	alpha-Pinene	ND	0.85	0.24	ND	0.15	0.042	
103-65-1	n-Propylbenzene	ND	0.85	0.27	ND	0.17	0.055	
622-96-8	4-Ethyltoluene	ND	0.85	0.27	ND	0.17	0.055	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	0.27	ND	0.17	0.055	
95-63-6	1,2,4-Trimethylbenzene	ND	0.85	0.25	ND	0.17	0.052	
100-44-7	Benzyl Chloride	ND	0.85	0.19	ND	0.16	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.13	ND	0.028	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.17	0.13	ND	0.028	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.028	0.026	
5989-27-5	d-Limonene	**0.26**	0.85	0.24	**0.047**	0.15	0.042	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.85	0.17	ND	0.087	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.85	0.27	ND	0.11	0.036	
91-20-3	Naphthalene	ND	0.85	0.30	ND	0.16	0.058	
87-68-3	Hexachlorobutadiene	**0.39**	0.85	0.24	**0.036**	0.079	0.022	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00131

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.64 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**43**	0.71	0.20	**25**	0.41	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	0.71	0.24	**0.47**	0.14	0.048	
74-87-3	Chloromethane	**0.58**	0.28	0.20	**0.28**	0.14	0.096	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.71	0.27	ND	0.10	0.038	
75-01-4	Vinyl Chloride	ND	0.14	0.13	ND	0.055	0.052	
106-99-0	1,3-Butadiene	**0.21**	0.28	0.20	**0.096**	0.13	0.089	**J**
74-83-9	Bromomethane	ND	0.28	0.13	ND	0.073	0.034	
75-00-3	Chloroethane	ND	0.28	0.12	ND	0.11	0.047	
64-17-5	Ethanol	**370**	7.1	1.1	**200**	3.7	0.60	
75-05-8	Acetonitrile	ND	0.71	0.25	ND	0.42	0.15	
107-02-8	Acrolein	**1.2**	2.8	0.24	**0.53**	1.2	0.10	**J**
67-64-1	Acetone	**15**	7.1	1.1	**6.2**	3.0	0.46	
75-69-4	Trichlorofluoromethane	**1.6**	0.14	0.080	**0.28**	0.025	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	**74**	7.1	0.59	**30**	2.9	0.24	
107-13-1	Acrylonitrile	ND	0.71	0.24	ND	0.32	0.11	
75-35-4	1,1-Dichloroethene	ND	0.14	0.13	ND	0.036	0.033	
75-09-2	Methylene Chloride	**42**	0.71	0.24	**12**	0.20	0.069	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	0.11	ND	0.045	0.034	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.14	0.11	**0.068**	0.018	0.015	
75-15-0	Carbon Disulfide	ND	7.1	0.21	ND	2.3	0.068	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.13	ND	0.036	0.032	
75-34-3	1,1-Dichloroethane	ND	0.14	0.11	ND	0.035	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	0.13	ND	0.039	0.036	
108-05-4	Vinyl Acetate	**3.1**	7.1	0.92	**0.88**	2.0	0.26	**J**
78-93-3	2-Butanone (MEK)	**0.80**	7.1	0.30	**0.27**	2.4	0.10	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00131

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.64 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.13	ND	0.036	0.033	
141-78-6	Ethyl Acetate	**5.6**	1.4	0.49	**1.5**	0.39	0.14	
110-54-3	n-Hexane	**0.60**	0.71	0.21	**0.17**	0.20	0.060	**J**
67-66-3	Chloroform	**0.13**	0.14	0.13	**0.026**	0.029	0.026	**J**
109-99-9	Tetrahydrofuran (THF)	ND	0.71	0.28	ND	0.24	0.096	
107-06-2	1,2-Dichloroethane	**0.18**	0.14	0.087	**0.044**	0.035	0.022	
71-55-6	1,1,1-Trichloroethane	**0.59**	0.14	0.10	**0.11**	0.026	0.019	
71-43-2	Benzene	**1.1**	0.14	0.11	**0.35**	0.044	0.035	
56-23-5	Carbon Tetrachloride	**0.49**	0.14	0.12	**0.078**	0.022	0.019	
110-82-7	Cyclohexane	ND	1.4	0.41	ND	0.41	0.12	
78-87-5	1,2-Dichloropropane	ND	0.14	0.12	ND	0.031	0.025	
75-27-4	Bromodichloromethane	ND	0.14	0.096	ND	0.021	0.014	
79-01-6	Trichloroethene	ND	0.14	0.13	ND	0.026	0.023	
123-91-1	1,4-Dioxane	ND	0.71	0.23	ND	0.20	0.063	
80-62-6	Methyl Methacrylate	ND	1.4	0.44	ND	0.34	0.11	
142-82-5	n-Heptane	**0.38**	0.71	0.24	**0.092**	0.17	0.059	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	0.20	ND	0.16	0.043	
108-10-1	4-Methyl-2-pentanone	**0.45**	0.71	0.23	**0.11**	0.17	0.055	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	0.23	ND	0.16	0.050	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.11	ND	0.026	0.021	
108-88-3	Toluene	**2.3**	0.71	0.24	**0.62**	0.19	0.064	
591-78-6	2-Hexanone	ND	0.71	0.23	ND	0.17	0.055	
124-48-1	Dibromochloromethane	ND	0.14	0.12	ND	0.017	0.014	
106-93-4	1,2-Dibromoethane	ND	0.14	0.12	ND	0.018	0.016	
123-86-4	n-Butyl Acetate	**0.45**	0.71	0.23	**0.094**	0.15	0.048	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00131

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.64 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.71	0.25	ND	0.15	0.054	
127-18-4	Tetrachloroethene	ND	0.14	0.10	ND	0.021	0.015	
108-90-7	Chlorobenzene	ND	0.14	0.12	ND	0.031	0.025	
100-41-4	Ethylbenzene	**0.54**	0.71	0.23	**0.12**	0.16	0.052	**J**
179601-23-1	m,p-Xylenes	**1.8**	0.71	0.41	**0.42**	0.16	0.094	
75-25-2	Bromoform	ND	0.71	0.21	ND	0.068	0.020	
100-42-5	Styrene	ND	0.71	0.21	ND	0.17	0.050	
95-47-6	o-Xylene	**0.62**	0.71	0.21	**0.14**	0.16	0.049	**J**
111-84-2	n-Nonane	ND	0.71	0.21	ND	0.13	0.040	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.12	ND	0.021	0.017	
98-82-8	Cumene	ND	0.71	0.21	ND	0.14	0.043	
80-56-8	alpha-Pinene	**0.70**	0.71	0.20	**0.13**	0.13	0.035	**J**
103-65-1	n-Propylbenzene	ND	0.71	0.23	ND	0.14	0.046	
622-96-8	4-Ethyltoluene	ND	0.71	0.23	ND	0.14	0.046	
108-67-8	1,3,5-Trimethylbenzene	ND	0.71	0.23	ND	0.14	0.046	
95-63-6	1,2,4-Trimethylbenzene	**0.61**	0.71	0.21	**0.12**	0.14	0.043	**J**
100-44-7	Benzyl Chloride	ND	0.71	0.16	ND	0.14	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.14	0.10	ND	0.023	0.017	
106-46-7	1,4-Dichlorobenzene	**0.56**	0.14	0.11	**0.094**	0.023	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.14	0.13	ND	0.023	0.022	
5989-27-5	d-Limonene	**0.80**	0.71	0.20	**0.14**	0.13	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.71	0.14	ND	0.073	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.71	0.23	ND	0.095	0.030	
91-20-3	Naphthalene	ND	0.71	0.25	ND	0.13	0.048	
87-68-3	Hexachlorobutadiene	ND	0.71	0.20	ND	0.066	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00155

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.69 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.8**	0.92	0.26	**1.1**	0.53	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.92	0.31	**0.44**	0.19	0.063	
74-87-3	Chloromethane	**0.50**	0.37	0.26	**0.24**	0.18	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.92	0.35	ND	0.13	0.050	
75-01-4	Vinyl Chloride	ND	0.18	0.17	ND	0.072	0.068	
106-99-0	1,3-Butadiene	ND	0.37	0.26	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.37	0.17	ND	0.095	0.044	
75-00-3	Chloroethane	ND	0.37	0.16	ND	0.14	0.061	
64-17-5	Ethanol	**200**	9.2	1.5	**110**	4.9	0.78	
75-05-8	Acetonitrile	**0.86**	0.92	0.33	**0.51**	0.55	0.20	**J**
107-02-8	Acrolein	**0.82**	3.7	0.31	**0.36**	1.6	0.14	**J**
67-64-1	Acetone	**14**	9.2	1.4	**5.8**	3.9	0.60	
75-69-4	Trichlorofluoromethane	**1.2**	0.18	0.10	**0.21**	0.033	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.5**	9.2	0.77	**0.63**	3.7	0.31	**J**
107-13-1	Acrylonitrile	ND	0.92	0.31	ND	0.42	0.14	
75-35-4	1,1-Dichloroethene	ND	0.18	0.17	ND	0.046	0.043	
75-09-2	Methylene Chloride	**9.8**	0.92	0.31	**2.8**	0.26	0.090	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	0.14	ND	0.059	0.045	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.18	0.15	**0.068**	0.024	0.019	
75-15-0	Carbon Disulfide	ND	9.2	0.28	ND	3.0	0.089	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.17	ND	0.046	0.042	
75-34-3	1,1-Dichloroethane	ND	0.18	0.15	ND	0.045	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	0.17	ND	0.051	0.047	
108-05-4	Vinyl Acetate	**6.0**	9.2	1.2	**1.7**	2.6	0.34	**J**
78-93-3	2-Butanone (MEK)	**1.2**	9.2	0.39	**0.40**	3.1	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00155

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.69 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.17	ND	0.046	0.043	
141-78-6	Ethyl Acetate	**6.4**	1.8	0.64	**1.8**	0.51	0.18	
110-54-3	n-Hexane	**0.38**	0.92	0.28	**0.11**	0.26	0.078	**J**
67-66-3	Chloroform	ND	0.18	0.16	ND	0.038	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.92	0.37	ND	0.31	0.12	
107-06-2	1,2-Dichloroethane	**0.15**	0.18	0.11	**0.037**	0.045	0.028	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.18	0.14	ND	0.034	0.025	
71-43-2	Benzene	**0.58**	0.18	0.15	**0.18**	0.058	0.046	
56-23-5	Carbon Tetrachloride	**0.47**	0.18	0.16	**0.075**	0.029	0.025	
110-82-7	Cyclohexane	ND	1.8	0.53	ND	0.53	0.16	
78-87-5	1,2-Dichloropropane	ND	0.18	0.15	ND	0.040	0.033	
75-27-4	Bromodichloromethane	ND	0.18	0.13	ND	0.027	0.019	
79-01-6	Trichloroethene	ND	0.18	0.16	ND	0.034	0.030	
123-91-1	1,4-Dioxane	ND	0.92	0.29	ND	0.26	0.082	
80-62-6	Methyl Methacrylate	ND	1.8	0.57	ND	0.45	0.14	
142-82-5	n-Heptane	ND	0.92	0.31	ND	0.22	0.076	
10061-01-5	cis-1,3-Dichloropropene	ND	0.92	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	**0.87**	0.92	0.29	**0.21**	0.22	0.072	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.92	0.29	ND	0.20	0.065	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.15	ND	0.034	0.027	
108-88-3	Toluene	**1.1**	0.92	0.31	**0.29**	0.24	0.083	
591-78-6	2-Hexanone	ND	0.92	0.29	ND	0.22	0.072	
124-48-1	Dibromochloromethane	ND	0.18	0.16	ND	0.022	0.018	
106-93-4	1,2-Dibromoethane	ND	0.18	0.16	ND	0.024	0.020	
123-86-4	n-Butyl Acetate	**0.65**	0.92	0.29	**0.14**	0.19	0.062	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00155

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.69 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.92	0.33	ND	0.20	0.071	
127-18-4	Tetrachloroethene	ND	0.18	0.13	ND	0.027	0.020	
108-90-7	Chlorobenzene	ND	0.18	0.15	ND	0.040	0.033	
100-41-4	Ethylbenzene	ND	0.92	0.29	ND	0.21	0.068	
179601-23-1	m,p-Xylenes	**0.63**	0.92	0.53	**0.15**	0.21	0.12	**J**
75-25-2	Bromoform	ND	0.92	0.28	ND	0.089	0.027	
100-42-5	Styrene	ND	0.92	0.28	ND	0.22	0.065	
95-47-6	o-Xylene	ND	0.92	0.28	ND	0.21	0.064	
111-84-2	n-Nonane	ND	0.92	0.28	ND	0.18	0.053	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.15	ND	0.027	0.023	
98-82-8	Cumene	ND	0.92	0.28	ND	0.19	0.056	
80-56-8	alpha-Pinene	**0.33**	0.92	0.26	**0.059**	0.17	0.046	**J**
103-65-1	n-Propylbenzene	ND	0.92	0.29	ND	0.19	0.060	
622-96-8	4-Ethyltoluene	ND	0.92	0.29	ND	0.19	0.060	
108-67-8	1,3,5-Trimethylbenzene	ND	0.92	0.29	ND	0.19	0.060	
95-63-6	1,2,4-Trimethylbenzene	ND	0.92	0.28	ND	0.19	0.056	
100-44-7	Benzyl Chloride	ND	0.92	0.20	ND	0.18	0.039	
541-73-1	1,3-Dichlorobenzene	ND	0.18	0.14	ND	0.031	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.18	0.14	ND	0.031	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.18	0.17	ND	0.031	0.028	
5989-27-5	d-Limonene	**2.3**	0.92	0.26	**0.41**	0.17	0.046	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.92	0.18	ND	0.095	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	0.92	0.29	ND	0.12	0.040	
91-20-3	Naphthalene	ND	0.92	0.33	ND	0.18	0.063	
87-68-3	Hexachlorobutadiene	ND	0.92	0.26	ND	0.086	0.024	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00127

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.69 Final Pressure (psig): 3.95

Canister Dilution Factor: 1.86

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.5**	0.93	0.26	**2.6**	0.54	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.93	0.32	**0.44**	0.19	0.064	
74-87-3	Chloromethane	**0.49**	0.37	0.26	**0.24**	0.18	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.93	0.35	ND	0.13	0.051	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.073	0.069	
106-99-0	1,3-Butadiene	ND	0.37	0.26	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.37	0.17	ND	0.096	0.045	
75-00-3	Chloroethane	ND	0.37	0.16	ND	0.14	0.061	
64-17-5	Ethanol	**43**	9.3	1.5	**23**	4.9	0.79	
75-05-8	Acetonitrile	ND	0.93	0.33	ND	0.55	0.20	
107-02-8	Acrolein	**1.1**	3.7	0.32	**0.47**	1.6	0.14	**J**
67-64-1	Acetone	**10**	9.3	1.4	**4.3**	3.9	0.60	
75-69-4	Trichlorofluoromethane	**1.2**	0.19	0.11	**0.21**	0.033	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.4**	9.3	0.78	**2.6**	3.8	0.32	**J**
107-13-1	Acrylonitrile	ND	0.93	0.32	ND	0.43	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.17	ND	0.047	0.044	
75-09-2	Methylene Chloride	**20**	0.93	0.32	**5.8**	0.27	0.091	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.14	ND	0.059	0.045	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.19	0.15	**0.068**	0.024	0.019	
75-15-0	Carbon Disulfide	ND	9.3	0.28	ND	3.0	0.090	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.043	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.046	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.17	ND	0.052	0.048	
108-05-4	Vinyl Acetate	**2.3**	9.3	1.2	**0.64**	2.6	0.34	**J**
78-93-3	2-Butanone (MEK)	**2.0**	9.3	0.39	**0.68**	3.2	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00127

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.69 Final Pressure (psig): 3.95

Canister Dilution Factor: 1.86

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.043	
141-78-6	Ethyl Acetate	**59**	1.9	0.65	**16**	0.52	0.18	
110-54-3	n-Hexane	**0.47**	0.93	0.28	**0.13**	0.26	0.079	**J**
67-66-3	Chloroform	ND	0.19	0.17	ND	0.038	0.034	
109-99-9	Tetrahydrofuran (THF)	**0.70**	0.93	0.37	**0.24**	0.32	0.13	**J**
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.046	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.034	0.025	
71-43-2	Benzene	**0.65**	0.19	0.15	**0.21**	0.058	0.046	
56-23-5	Carbon Tetrachloride	**0.47**	0.19	0.16	**0.074**	0.030	0.025	
110-82-7	Cyclohexane	ND	1.9	0.54	ND	0.54	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.15	ND	0.040	0.033	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.035	0.031	
123-91-1	1,4-Dioxane	ND	0.93	0.30	ND	0.26	0.083	
80-62-6	Methyl Methacrylate	ND	1.9	0.58	ND	0.45	0.14	
142-82-5	n-Heptane	**0.67**	0.93	0.32	**0.16**	0.23	0.077	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	ND	0.93	0.30	ND	0.23	0.073	
10061-02-6	trans-1,3-Dichloropropene	ND	0.93	0.30	ND	0.20	0.066	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.034	0.027	
108-88-3	Toluene	**2.0**	0.93	0.32	**0.54**	0.25	0.084	
591-78-6	2-Hexanone	ND	0.93	0.30	ND	0.23	0.073	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.024	0.021	
123-86-4	n-Butyl Acetate	**0.62**	0.93	0.30	**0.13**	0.20	0.063	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00127

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.69 Final Pressure (psig): 3.95

Canister Dilution Factor: 1.86

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.93	0.33	ND	0.20	0.072	
127-18-4	Tetrachloroethene	ND	0.19	0.13	ND	0.027	0.020	
108-90-7	Chlorobenzene	ND	0.19	0.15	ND	0.040	0.034	
100-41-4	Ethylbenzene	ND	0.93	0.30	ND	0.21	0.069	
179601-23-1	m,p-Xylenes	**0.65**	0.93	0.54	**0.15**	0.21	0.12	**J**
75-25-2	Bromoform	ND	0.93	0.28	ND	0.090	0.027	
100-42-5	Styrene	**0.40**	0.93	0.28	**0.094**	0.22	0.066	**J**
95-47-6	o-Xylene	ND	0.93	0.28	ND	0.21	0.064	
111-84-2	n-Nonane	**0.32**	0.93	0.28	**0.060**	0.18	0.053	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.027	0.023	
98-82-8	Cumene	ND	0.93	0.28	ND	0.19	0.057	
80-56-8	alpha-Pinene	**0.30**	0.93	0.26	**0.054**	0.17	0.047	**J**
103-65-1	n-Propylbenzene	ND	0.93	0.30	ND	0.19	0.061	
622-96-8	4-Ethyltoluene	ND	0.93	0.30	ND	0.19	0.061	
108-67-8	1,3,5-Trimethylbenzene	ND	0.93	0.30	ND	0.19	0.061	
95-63-6	1,2,4-Trimethylbenzene	ND	0.93	0.28	ND	0.19	0.057	
100-44-7	Benzyl Chloride	ND	0.93	0.20	ND	0.18	0.040	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.17	ND	0.031	0.029	
5989-27-5	d-Limonene	**2.8**	0.93	0.26	**0.50**	0.17	0.047	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.93	0.18	ND	0.096	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	0.93	0.30	ND	0.13	0.040	
91-20-3	Naphthalene	ND	0.93	0.33	ND	0.18	0.064	
87-68-3	Hexachlorobutadiene	ND	0.93	0.26	ND	0.087	0.024	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00132

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.62 Final Pressure (psig): 3.88

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**0.86**	1.0	0.29	**0.50**	0.60	0.17	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.6**	1.0	0.35	**0.33**	0.21	0.071	
74-87-3	Chloromethane	**0.47**	0.41	0.29	**0.23**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.19	ND	0.080	0.076	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**5.0**	10	1.6	**2.6**	5.4	0.87	**J**
75-05-8	Acetonitrile	ND	1.0	0.37	ND	0.61	0.22	
107-02-8	Acrolein	**0.86**	4.1	0.35	**0.38**	1.8	0.15	**J**
67-64-1	Acetone	**6.8**	10	1.6	**2.9**	4.3	0.66	**J**
75-69-4	Trichlorofluoromethane	**0.84**	0.21	0.12	**0.15**	0.036	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**0.96**	10	0.86	**0.39**	4.2	0.35	**J**
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-09-2	Methylene Chloride	**14**	1.0	0.35	**4.1**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.38**	0.21	0.16	**0.050**	0.027	0.021	
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.3	0.099	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.047	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.38	
78-93-3	2-Butanone (MEK)	**0.72**	10	0.43	**0.24**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00132

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.62 Final Pressure (psig): 3.88

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	ND	2.1	0.72	ND	0.57	0.20	
110-54-3	n-Hexane	**0.63**	1.0	0.31	**0.18**	0.29	0.087	**J**
67-66-3	Chloroform	ND	0.21	0.18	ND	0.042	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	ND	0.21	0.13	ND	0.051	0.031	
71-55-6	1,1,1-Trichloroethane	**0.16**	0.21	0.15	**0.029**	0.038	0.028	**J**
71-43-2	Benzene	**0.26**	0.21	0.16	**0.082**	0.064	0.051	
56-23-5	Carbon Tetrachloride	**0.32**	0.21	0.18	**0.051**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.59	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.044	0.037	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.18	ND	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.28	0.091	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.50	0.16	
142-82-5	n-Heptane	**0.75**	1.0	0.35	**0.18**	0.25	0.085	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.063	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.33	ND	0.25	0.080	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.072	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.16	ND	0.038	0.030	
108-88-3	Toluene	ND	1.0	0.35	ND	0.27	0.093	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.25	0.080	
124-48-1	Dibromochloromethane	ND	0.21	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.21	0.17	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	ND	1.0	0.33	ND	0.22	0.069	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P1601690-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00132

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.62 Final Pressure (psig): 3.88

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.67**	1.0	0.37	**0.14**	0.22	0.079	**J**
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	ND	1.0	0.33	ND	0.24	0.076	
179601-23-1	m,p-Xylenes	ND	1.0	0.59	ND	0.24	0.14	
75-25-2	Bromoform	ND	1.0	0.31	ND	0.099	0.030	
100-42-5	Styrene	ND	1.0	0.31	ND	0.24	0.072	
95-47-6	o-Xylene	ND	1.0	0.31	ND	0.24	0.071	
111-84-2	n-Nonane	**0.78**	1.0	0.31	**0.15**	0.20	0.059	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
80-56-8	alpha-Pinene	ND	1.0	0.29	ND	0.18	0.052	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.31	ND	0.21	0.063	
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	ND	1.0	0.29	ND	0.18	0.052	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.070	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.096	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00130

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**17**	1.0	0.28	**10**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.0	0.34	**0.44**	0.20	0.069	
74-87-3	Chloromethane	**0.51**	0.40	0.28	**0.25**	0.19	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.079	0.075	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.066	
64-17-5	Ethanol	**180**	10	1.6	**94**	5.3	0.85	
75-05-8	Acetonitrile	ND	1.0	0.36	ND	0.60	0.22	
107-02-8	Acrolein	**1.9**	4.0	0.34	**0.82**	1.8	0.15	**J**
67-64-1	Acetone	**23**	10	1.5	**9.8**	4.2	0.65	
75-69-4	Trichlorofluoromethane	**1.1**	0.20	0.11	**0.20**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**27**	10	0.84	**11**	4.1	0.34	
107-13-1	Acrylonitrile	ND	1.0	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-09-2	Methylene Chloride	**29**	1.0	0.34	**8.3**	0.29	0.098	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.064	0.049	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.20	0.16	**0.066**	0.026	0.021	
75-15-0	Carbon Disulfide	**0.45**	10	0.30	**0.15**	3.2	0.097	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.056	0.052	
108-05-4	Vinyl Acetate	**2.6**	10	1.3	**0.73**	2.9	0.37	**J**
78-93-3	2-Butanone (MEK)	**0.90**	10	0.42	**0.31**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00130

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**5.2**	2.0	0.70	**1.4**	0.56	0.20	
110-54-3	n-Hexane	ND	1.0	0.30	ND	0.29	0.086	
67-66-3	Chloroform	ND	0.20	0.18	ND	0.041	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	**1.2**	0.20	0.12	**0.29**	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.037	0.027	
71-43-2	Benzene	**0.45**	0.20	0.16	**0.14**	0.063	0.050	
56-23-5	Carbon Tetrachloride	**0.47**	0.20	0.17	**0.075**	0.032	0.027	
110-82-7	Cyclohexane	ND	2.0	0.58	ND	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.020	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.037	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.089	
80-62-6	Methyl Methacrylate	ND	2.0	0.62	ND	0.49	0.15	
142-82-5	n-Heptane	ND	1.0	0.34	ND	0.25	0.083	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.32	ND	0.25	0.079	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.029	
108-88-3	Toluene	**1.1**	1.0	0.34	**0.28**	0.27	0.091	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.25	0.079	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**1.6**	1.0	0.32	**0.33**	0.21	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P1601690-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00130

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.36	ND	0.22	0.077	
127-18-4	Tetrachloroethene	ND	0.20	0.14	ND	0.030	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.036	
100-41-4	Ethylbenzene	ND	1.0	0.32	ND	0.23	0.074	
179601-23-1	m,p-Xylenes	ND	1.0	0.58	ND	0.23	0.13	
75-25-2	Bromoform	ND	1.0	0.30	ND	0.097	0.029	
100-42-5	Styrene	ND	1.0	0.30	ND	0.24	0.071	
95-47-6	o-Xylene	ND	1.0	0.30	ND	0.23	0.069	
111-84-2	n-Nonane	**0.34**	1.0	0.30	**0.064**	0.19	0.057	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.025	
98-82-8	Cumene	ND	1.0	0.30	ND	0.20	0.061	
80-56-8	alpha-Pinene	**2.8**	1.0	0.28	**0.51**	0.18	0.051	
103-65-1	n-Propylbenzene	ND	1.0	0.32	ND	0.20	0.065	
622-96-8	4-Ethyltoluene	ND	1.0	0.32	ND	0.20	0.065	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.32	ND	0.20	0.065	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.30	ND	0.20	0.061	
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.19	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
106-46-7	1,4-Dichlorobenzene	**0.89**	0.20	0.15	**0.15**	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.033	0.031	
5989-27-5	d-Limonene	**51**	1.0	0.28	**9.1**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.043	
91-20-3	Naphthalene	ND	1.0	0.36	ND	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.094	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P160402-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601690

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/30/16
Analyst: Wida Ang Date(s) Received: 4/1/16
Sample Type: Canister(s) Date(s) Analyzed: 4/2/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
[redacted]	P160402-MB	**106**	**99**	**101**	70-130	
	P160402-LCS	**102**	**95**	**103**	70-130	
	P1601690-001	**104**	**99**	**101**	70-130	
	P1601690-002	**104**	**98**	**101**	70-130	
	P1601690-003	**104**	**98**	**101**	70-130	
	P1601690-004	**103**	**97**	**101**	70-130	
	P1601690-005	**102**	**98**	**102**	70-130	
	P1601690-006	**101**	**97**	**102**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**166**	**85**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**164**	**87**	65-117	
74-87-3	Chloromethane	200	**185**	**93**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**173**	**85**	65-122	
75-01-4	Vinyl Chloride	200	**193**	**97**	65-128	
106-99-0	1,3-Butadiene	206	**222**	**108**	62-143	
74-83-9	Bromomethane	202	**190**	**94**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**839**	**84**	57-126	
75-05-8	Acetonitrile	212	**175**	**83**	51-134	
107-02-8	Acrolein	214	**185**	**86**	55-146	
67-64-1	Acetone	1,080	**853**	**79**	57-120	
75-69-4	Trichlorofluoromethane	216	**168**	**78**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**377**	**90**	59-129	
107-13-1	Acrylonitrile	212	**202**	**95**	64-136	
75-35-4	1,1-Dichloroethene	216	**199**	**92**	72-123	
75-09-2	Methylene Chloride	222	**176**	**79**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**221**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**188**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**149**	**71**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**201**	**96**	69-129	
75-34-3	1,1-Dichloroethane	212	**183**	**86**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**190**	**88**	55-128	
108-05-4	Vinyl Acetate	1,040	**1020**	**98**	66-140	
78-93-3	2-Butanone (MEK)	220	**159**	**72**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**201**	**92**	65-125	
141-78-6	Ethyl Acetate	428	**390**	**91**	64-132	
110-54-3	n-Hexane	212	**150**	**71**	58-126	
67-66-3	Chloroform	224	**190**	**85**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**200**	**91**	64-123	
107-06-2	1,2-Dichloroethane	214	**190**	**89**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**200**	**95**	68-120	
71-43-2	Benzene	226	**184**	**81**	61-110	
56-23-5	Carbon Tetrachloride	230	**211**	**92**	65-137	
110-82-7	Cyclohexane	424	**366**	**86**	68-122	
78-87-5	1,2-Dichloropropane	216	**193**	**89**	67-122	
75-27-4	Bromodichloromethane	218	**213**	**98**	71-124	
79-01-6	Trichloroethene	216	**181**	**84**	71-121	
123-91-1	1,4-Dioxane	210	**218**	**104**	67-122	
80-62-6	Methyl Methacrylate	422	**379**	**90**	76-130	
142-82-5	n-Heptane	216	**179**	**83**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**199**	**96**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**212**	**96**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**212**	**101**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**200**	**93**	73-121	
108-88-3	Toluene	218	**152**	**70**	67-117	
591-78-6	2-Hexanone	220	**207**	**94**	59-128	
124-48-1	Dibromochloromethane	220	**216**	**98**	73-132	
106-93-4	1,2-Dibromoethane	218	**203**	**93**	73-128	
123-86-4	n-Butyl Acetate	226	**225**	**100**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601690
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**177**	**84**	67-124	
127-18-4	Tetrachloroethene	202	**169**	**84**	65-126	
108-90-7	Chlorobenzene	220	**186**	**85**	68-120	
100-41-4	Ethylbenzene	218	**189**	**87**	69-123	
179601-23-1	m,p-Xylenes	428	**368**	**86**	67-125	
75-25-2	Bromoform	228	**217**	**95**	68-153	
100-42-5	Styrene	222	**210**	**95**	68-132	
95-47-6	o-Xylene	210	**183**	**87**	67-124	
111-84-2	n-Nonane	204	**183**	**90**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**193**	**92**	72-128	
98-82-8	Cumene	208	**181**	**87**	67-124	
80-56-8	alpha-Pinene	212	**187**	**88**	67-129	
103-65-1	n-Propylbenzene	204	**181**	**89**	67-125	
622-96-8	4-Ethyltoluene	214	**189**	**88**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**187**	**87**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**194**	**89**	62-134	
100-44-7	Benzyl Chloride	220	**236**	**107**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**199**	**87**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**186**	**89**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**196**	**89**	62-134	
5989-27-5	d-Limonene	210	**199**	**95**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**215**	**99**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**198**	**86**	60-145	
91-20-3	Naphthalene	218	**187**	**86**	56-158	
87-68-3	Hexachlorobutadiene	230	**190**	**83**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2016. For your reference, these analyses have been assigned our service request number P1601691.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 9:52 am, Apr 05, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601691
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601691
Project ID: Aliso Canyon / 603287048

Date Received: 4/1/2016
Time Received: 08:56

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601691-001	Air	3/30/2016	11:51	CC00125	-6.03	3.69	X
P1601691-002	Air	3/30/2016	12:49	CC00121	-0.40	3.56	X
P1601691-003	Air	3/30/2016	13:56	CC00135	-5.12	3.62	X
P1601691-004	Air	3/30/2016	14:58	CC00134	-6.36	3.68	X
P1601691-005	Air	3/30/2016	16:09	CC00143	-3.44	4.03	X
P1601691-006	Air	3/30/2016	17:13	CC00159	-5.56	-3.89	X

P1601691

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 3/30/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Robert Vasquez /IH/SH/LW

Rotameter: _____ **Serial # :** _____ **Expiration Date:**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							1.
			Avg:						
34-SU-D	11	11			1205	1151	1426		Dining room, #CC00125 #ATL00003386 -0.265 (at start) #3886
			Avg:						
47-SU-G	11	11			1317	1249	1412		#CC00121, gauge #20740 dining room #3362 -.01 at start
			Avg:						
69-SU	11	11			1413	1356	1423		# CC00135 gauge # 20722 livingroom #2969 -.30 at start
			Avg:						
93-SU	11	11			1511	1458	1427		living room #1952 gauge #20565 #CC00134 (can) -0.28 at start
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 3/31/16	Time: 1757	Received by:	Date: 3/31/16	Time: 1807
Relinquished by:	Date: 4/1/16	Time: 0856	Received by:	Date: 4/1/16	Time: 0816
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

P1601691

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez/IT/SH/LHW	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
119-SU serial 4249	11	11			1615	1609	1434		dining room, #CC00143 can gauge #40318 -29.5 at start
			Avg:						
45-SU	11	11			1716	1713	1437		#CC00159 can gauge #'s worn off Kitchen living room -0.29 at start
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 3/31/16	Time: 1757	Received by:	Date: 3/31/16	Time: 1807
Relinquished by:	Date: 4/1/16	Time: 0850	Received by:	Date: 4/1/16	Time: 0856
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Kate Aguilera

From: Meredith Church <mchurch@leightongroup.com>
Sent: Friday, April 01, 2016 8:43 AM
To: Kate Aguilera
Subject: COC Note, 4/1/16 TO-15 Summas

Kate,
A Public Health staff is delivering the summa canisters to your lab right now. His name is Josue Rosas. I (Meredith Church) checked in one group of the canisters and Jennifer Bobbiwash checked in the other group. We released the cans over to Josue for delivery at approximately 8:25 am this morning 4/1/16. He radioed in and asked if he needed to return for the signatures but I told him to go ahead and deliver to your lab and sign on the release signature line and that I would send an email to you notifying you of the chain of custody for drop off. Please include this note at the end of the COC in the lab report. Thank you!

Meredith Church
Leighton Consulting, Inc.

ALS Group: Click here to report this email as spam.

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601691

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/1/16 Date opened: 4/1/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601691-001.01	Canister					
P1601691-002.01	Canister					
P1601691-003.01	Canister					
P1601691-004.01	Canister					
P1601691-005.01	Canister					
P1601691-006.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00125

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.12

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**2.4**	1.1	**1.4**	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.1	**0.41**	0.21	
74-87-3	Chloromethane	**0.46**	0.42	**0.22**	0.21	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	ND	0.15	
75-01-4	Vinyl Chloride	ND	0.21	ND	0.083	
106-99-0	1,3-Butadiene	ND	0.42	ND	0.19	
74-83-9	Bromomethane	ND	0.42	ND	0.11	
75-00-3	Chloroethane	ND	0.42	ND	0.16	
64-17-5	Ethanol	**15**	11	**8.0**	5.6	
75-05-8	Acetonitrile	ND	1.1	ND	0.63	
107-02-8	Acrolein	ND	4.2	ND	1.8	
67-64-1	Acetone	ND	11	ND	4.5	
75-69-4	Trichlorofluoromethane	**1.0**	0.21	**0.19**	0.038	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	11	ND	4.3	
107-13-1	Acrylonitrile	ND	1.1	ND	0.49	
75-35-4	1,1-Dichloroethene	ND	0.21	ND	0.053	
75-09-2	Methylene Chloride	**85**	1.1	**24**	0.31	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	ND	0.068	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.21	**0.062**	0.028	
75-15-0	Carbon Disulfide	ND	11	ND	3.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	ND	0.053	
75-34-3	1,1-Dichloroethane	ND	0.21	ND	0.052	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	ND	0.059	
108-05-4	Vinyl Acetate	ND	11	ND	3.0	
78-93-3	2-Butanone (MEK)	ND	11	ND	3.6	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00125

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.12

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	ND	0.053	
141-78-6	Ethyl Acetate	**6.4**	2.1	**1.8**	0.59	
110-54-3	n-Hexane	ND	1.1	ND	0.30	
67-66-3	Chloroform	ND	0.21	ND	0.043	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	ND	0.36	
107-06-2	1,2-Dichloroethane	ND	0.21	ND	0.052	
71-55-6	1,1,1-Trichloroethane	ND	0.21	ND	0.039	
71-43-2	Benzene	**1.0**	0.21	**0.32**	0.066	
56-23-5	Carbon Tetrachloride	**0.44**	0.21	**0.070**	0.034	
110-82-7	Cyclohexane	ND	2.1	ND	0.62	
78-87-5	1,2-Dichloropropane	ND	0.21	ND	0.046	
75-27-4	Bromodichloromethane	ND	0.21	ND	0.032	
79-01-6	Trichloroethene	ND	0.21	ND	0.039	
123-91-1	1,4-Dioxane	ND	1.1	ND	0.29	
80-62-6	Methyl Methacrylate	ND	2.1	ND	0.52	
142-82-5	n-Heptane	ND	1.1	ND	0.26	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ND	0.23	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.26	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ND	0.23	
79-00-5	1,1,2-Trichloroethane	ND	0.21	ND	0.039	
108-88-3	Toluene	**1.7**	1.1	**0.45**	0.28	
591-78-6	2-Hexanone	ND	1.1	ND	0.26	
124-48-1	Dibromochloromethane	ND	0.21	ND	0.025	
106-93-4	1,2-Dibromoethane	ND	0.21	ND	0.028	
123-86-4	n-Butyl Acetate	**2.0**	1.1	**0.41**	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00125

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.12

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	ND	0.23	
127-18-4	Tetrachloroethene	ND	0.21	ND	0.031	
108-90-7	Chlorobenzene	ND	0.21	ND	0.046	
100-41-4	Ethylbenzene	ND	1.1	ND	0.24	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.24	
75-25-2	Bromoform	ND	1.1	ND	0.10	
100-42-5	Styrene	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	1.1	ND	0.24	
111-84-2	n-Nonane	ND	1.1	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	ND	0.031	
98-82-8	Cumene	ND	1.1	ND	0.22	
80-56-8	alpha-Pinene	ND	1.1	ND	0.19	
103-65-1	n-Propylbenzene	ND	1.1	ND	0.22	
622-96-8	4-Ethyltoluene	ND	1.1	ND	0.22	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ND	0.22	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ND	0.22	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	0.21	ND	0.035	
106-46-7	1,4-Dichlorobenzene	ND	0.21	ND	0.035	
95-50-1	1,2-Dichlorobenzene	ND	0.21	ND	0.035	
5989-27-5	d-Limonene	**1.1**	1.1	**0.20**	0.19	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.14	
91-20-3	Naphthalene	ND	1.1	ND	0.20	
87-68-3	Hexachlorobutadiene	ND	1.1	ND	0.099	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00121

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -0.40 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**1.8**	0.64	**1.0**	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.64	**0.44**	0.13	
74-87-3	Chloromethane	**0.52**	0.26	**0.25**	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.050	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.066	
75-00-3	Chloroethane	ND	0.26	ND	0.097	
64-17-5	Ethanol	**63**	6.4	**34**	3.4	
75-05-8	Acetonitrile	ND	0.64	ND	0.38	
107-02-8	Acrolein	ND	2.6	ND	1.1	
67-64-1	Acetone	**18**	6.4	**7.5**	2.7	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	**0.20**	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	6.4	ND	2.6	
107-13-1	Acrylonitrile	ND	0.64	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	**210**	3.2	**62**	0.92	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.041	
76-13-1	Trichlorotrifluoroethane	**0.43**	0.13	**0.056**	0.017	
75-15-0	Carbon Disulfide	ND	6.4	ND	2.1	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.036	
108-05-4	Vinyl Acetate	ND	6.4	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	6.4	ND	2.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00121

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -0.40 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	**3.8**	1.3	**1.0**	0.36	
110-54-3	n-Hexane	ND	0.64	ND	0.18	
67-66-3	Chloroform	**0.16**	0.13	**0.033**	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.64	ND	0.22	
107-06-2	1,2-Dichloroethane	**0.37**	0.13	**0.090**	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	**0.20**	0.13	**0.063**	0.040	
56-23-5	Carbon Tetrachloride	**0.33**	0.13	**0.052**	0.020	
110-82-7	Cyclohexane	ND	1.3	ND	0.37	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.31	
142-82-5	n-Heptane	ND	0.64	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.64	ND	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	ND	0.64	ND	0.17	
591-78-6	2-Hexanone	ND	0.64	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	ND	0.64	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00121

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -0.40 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	ND	0.64	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.64	ND	0.15	
75-25-2	Bromoform	ND	0.64	ND	0.062	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	ND	0.64	ND	0.15	
111-84-2	n-Nonane	ND	0.64	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	ND	0.64	ND	0.11	
103-65-1	n-Propylbenzene	ND	0.64	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.64	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.64	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.64	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	**1.2**	0.64	**0.22**	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	ND	0.066	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	ND	0.086	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00135

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.12 Final Pressure (psig): 3.62

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.96	ND	0.56	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.96	**0.45**	0.19	
74-87-3	Chloromethane	**0.59**	0.38	**0.29**	0.19	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	ND	0.14	
75-01-4	Vinyl Chloride	ND	0.19	ND	0.075	
106-99-0	1,3-Butadiene	ND	0.38	ND	0.17	
74-83-9	Bromomethane	ND	0.38	ND	0.098	
75-00-3	Chloroethane	ND	0.38	ND	0.14	
64-17-5	Ethanol	**72**	9.6	**38**	5.1	
75-05-8	Acetonitrile	ND	0.96	ND	0.57	
107-02-8	Acrolein	ND	3.8	ND	1.7	
67-64-1	Acetone	**19**	9.6	**8.0**	4.0	
75-69-4	Trichlorofluoromethane	**1.2**	0.19	**0.21**	0.034	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.6	ND	3.9	
107-13-1	Acrylonitrile	ND	0.96	ND	0.44	
75-35-4	1,1-Dichloroethene	ND	0.19	ND	0.048	
75-09-2	Methylene Chloride	**23**	0.96	**6.7**	0.28	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	ND	0.061	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.19	**0.069**	0.025	
75-15-0	Carbon Disulfide	ND	9.6	ND	3.1	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	ND	0.048	
75-34-3	1,1-Dichloroethane	ND	0.19	ND	0.047	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	ND	0.053	
108-05-4	Vinyl Acetate	ND	9.6	ND	2.7	
78-93-3	2-Butanone (MEK)	ND	9.6	ND	3.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00135

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.12 Final Pressure (psig): 3.62

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	ND	0.048	
141-78-6	Ethyl Acetate	**3.0**	1.9	**0.82**	0.53	
110-54-3	n-Hexane	ND	0.96	ND	0.27	
67-66-3	Chloroform	**0.59**	0.19	**0.12**	0.039	
109-99-9	Tetrahydrofuran (THF)	ND	0.96	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	0.19	ND	0.047	
71-55-6	1,1,1-Trichloroethane	ND	0.19	ND	0.035	
71-43-2	Benzene	**0.67**	0.19	**0.21**	0.060	
56-23-5	Carbon Tetrachloride	**0.53**	0.19	**0.084**	0.030	
110-82-7	Cyclohexane	ND	1.9	ND	0.56	
78-87-5	1,2-Dichloropropane	ND	0.19	ND	0.041	
75-27-4	Bromodichloromethane	ND	0.19	ND	0.029	
79-01-6	Trichloroethene	ND	0.19	ND	0.036	
123-91-1	1,4-Dioxane	ND	0.96	ND	0.27	
80-62-6	Methyl Methacrylate	ND	1.9	ND	0.47	
142-82-5	n-Heptane	ND	0.96	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	ND	0.21	
108-10-1	4-Methyl-2-pentanone	ND	0.96	ND	0.23	
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	ND	0.21	
79-00-5	1,1,2-Trichloroethane	ND	0.19	ND	0.035	
108-88-3	Toluene	**4.0**	0.96	**1.1**	0.25	
591-78-6	2-Hexanone	ND	0.96	ND	0.23	
124-48-1	Dibromochloromethane	ND	0.19	ND	0.022	
106-93-4	1,2-Dibromoethane	ND	0.19	ND	0.025	
123-86-4	n-Butyl Acetate	**1.8**	0.96	**0.38**	0.20	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00135

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.12 Final Pressure (psig): 3.62

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.96	ND	0.20	
127-18-4	Tetrachloroethene	**0.87**	0.19	**0.13**	0.028	
108-90-7	Chlorobenzene	ND	0.19	ND	0.041	
100-41-4	Ethylbenzene	ND	0.96	ND	0.22	
179601-23-1	m,p-Xylenes	**1.3**	0.96	**0.30**	0.22	
75-25-2	Bromoform	ND	0.96	ND	0.092	
100-42-5	Styrene	ND	0.96	ND	0.22	
95-47-6	o-Xylene	ND	0.96	ND	0.22	
111-84-2	n-Nonane	ND	0.96	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	ND	0.028	
98-82-8	Cumene	ND	0.96	ND	0.19	
80-56-8	alpha-Pinene	ND	0.96	ND	0.17	
103-65-1	n-Propylbenzene	ND	0.96	ND	0.19	
622-96-8	4-Ethyltoluene	ND	0.96	ND	0.19	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	ND	0.19	
95-63-6	1,2,4-Trimethylbenzene	ND	0.96	ND	0.19	
100-44-7	Benzyl Chloride	ND	0.96	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	0.19	ND	0.032	
106-46-7	1,4-Dichlorobenzene	ND	0.19	ND	0.032	
95-50-1	1,2-Dichlorobenzene	ND	0.19	ND	0.032	
5989-27-5	d-Limonene	**1.1**	0.96	**0.20**	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.96	ND	0.099	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	ND	0.13	
91-20-3	Naphthalene	ND	0.96	ND	0.18	
87-68-3	Hexachlorobutadiene	ND	0.96	ND	0.090	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/30/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/1/16
Analyst:	Wida Ang	Date Analyzed:	4/2/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00135		

Initial Pressure (psig): -5.12 Final Pressure (psig): 3.62

Canister Dilution Factor: 1.91

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.91	Propane	**34**	
4.36	Isobutane	**130**	
4.49	Methyl Alcohol	**5.3**	
4.72	n-Butane	**6.6**	
7.89	Trimethylsilanol	**11**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00134

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.36 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.20

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**6.3**	1.1	**3.7**	0.64	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.1	**0.44**	0.22	
74-87-3	Chloromethane	**0.60**	0.44	**0.29**	0.21	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	ND	0.16	
75-01-4	Vinyl Chloride	ND	0.22	ND	0.086	
106-99-0	1,3-Butadiene	ND	0.44	ND	0.20	
74-83-9	Bromomethane	ND	0.44	ND	0.11	
75-00-3	Chloroethane	ND	0.44	ND	0.17	
64-17-5	Ethanol	**170**	11	**90**	5.8	
75-05-8	Acetonitrile	ND	1.1	ND	0.66	
107-02-8	Acrolein	ND	4.4	ND	1.9	
67-64-1	Acetone	**26**	11	**11**	4.6	
75-69-4	Trichlorofluoromethane	**1.1**	0.22	**0.20**	0.039	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	11	ND	4.5	
107-13-1	Acrylonitrile	ND	1.1	ND	0.51	
75-35-4	1,1-Dichloroethene	ND	0.22	ND	0.056	
75-09-2	Methylene Chloride	**25**	1.1	**7.3**	0.32	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	ND	0.070	
76-13-1	Trichlorotrifluoroethane	**0.44**	0.22	**0.057**	0.029	
75-15-0	Carbon Disulfide	ND	11	ND	3.5	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	ND	0.056	
75-34-3	1,1-Dichloroethane	ND	0.22	ND	0.054	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	ND	0.061	
108-05-4	Vinyl Acetate	ND	11	ND	3.1	
78-93-3	2-Butanone (MEK)	ND	11	ND	3.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00134

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.36 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.20

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	ND	0.056	
141-78-6	Ethyl Acetate	**6.9**	2.2	**1.9**	0.61	
110-54-3	n-Hexane	ND	1.1	ND	0.31	
67-66-3	Chloroform	ND	0.22	ND	0.045	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	ND	0.37	
107-06-2	1,2-Dichloroethane	ND	0.22	ND	0.054	
71-55-6	1,1,1-Trichloroethane	ND	0.22	ND	0.040	
71-43-2	Benzene	**0.29**	0.22	**0.092**	0.069	
56-23-5	Carbon Tetrachloride	**0.46**	0.22	**0.073**	0.035	
110-82-7	Cyclohexane	ND	2.2	ND	0.64	
78-87-5	1,2-Dichloropropane	ND	0.22	ND	0.048	
75-27-4	Bromodichloromethane	ND	0.22	ND	0.033	
79-01-6	Trichloroethene	ND	0.22	ND	0.041	
123-91-1	1,4-Dioxane	ND	1.1	ND	0.31	
80-62-6	Methyl Methacrylate	ND	2.2	ND	0.54	
142-82-5	n-Heptane	ND	1.1	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ND	0.24	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	0.22	ND	0.040	
108-88-3	Toluene	**1.2**	1.1	**0.33**	0.29	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	**0.25**	0.22	**0.030**	0.026	
106-93-4	1,2-Dibromoethane	ND	0.22	ND	0.029	
123-86-4	n-Butyl Acetate	**1.7**	1.1	**0.35**	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00134

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.36 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.20

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	ND	0.24	
127-18-4	Tetrachloroethene	ND	0.22	ND	0.032	
108-90-7	Chlorobenzene	ND	0.22	ND	0.048	
100-41-4	Ethylbenzene	ND	1.1	ND	0.25	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	1.1	ND	0.11	
100-42-5	Styrene	ND	1.1	ND	0.26	
95-47-6	o-Xylene	ND	1.1	ND	0.25	
111-84-2	n-Nonane	ND	1.1	ND	0.21	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	ND	0.032	
98-82-8	Cumene	ND	1.1	ND	0.22	
80-56-8	alpha-Pinene	ND	1.1	ND	0.20	
103-65-1	n-Propylbenzene	ND	1.1	ND	0.22	
622-96-8	4-Ethyltoluene	ND	1.1	ND	0.22	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ND	0.22	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ND	0.22	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.22	ND	0.037	
106-46-7	1,4-Dichlorobenzene	ND	0.22	ND	0.037	
95-50-1	1,2-Dichlorobenzene	ND	0.22	ND	0.037	
5989-27-5	d-Limonene	**7.5**	1.1	**1.3**	0.20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	1.1	ND	0.21	
87-68-3	Hexachlorobutadiene	ND	1.1	ND	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00143

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.44 Final Pressure (psig): 4.03

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	**1.4**	0.83	**0.79**	0.48	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.83	**0.45**	0.17	
74-87-3	Chloromethane	**0.53**	0.33	**0.25**	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-99-0	1,3-Butadiene	ND	0.33	ND	0.15	
74-83-9	Bromomethane	ND	0.33	ND	0.086	
75-00-3	Chloroethane	ND	0.33	ND	0.13	
64-17-5	Ethanol	**55**	8.3	**29**	4.4	
75-05-8	Acetonitrile	ND	0.83	ND	0.49	
107-02-8	Acrolein	ND	3.3	ND	1.4	
67-64-1	Acetone	**10**	8.3	**4.2**	3.5	
75-69-4	Trichlorofluoromethane	**1.2**	0.17	**0.21**	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	8.3	ND	3.4	
107-13-1	Acrylonitrile	ND	0.83	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.042	
75-09-2	Methylene Chloride	**17**	0.83	**4.8**	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.053	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.17	**0.068**	0.022	
75-15-0	Carbon Disulfide	ND	8.3	ND	2.7	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	ND	0.042	
75-34-3	1,1-Dichloroethane	ND	0.17	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	ND	0.046	
108-05-4	Vinyl Acetate	ND	8.3	ND	2.4	
78-93-3	2-Butanone (MEK)	ND	8.3	ND	2.8	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00143

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.44 Final Pressure (psig): 4.03

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.042	
141-78-6	Ethyl Acetate	**3.1**	1.7	**0.87**	0.46	
110-54-3	n-Hexane	ND	0.83	ND	0.24	
67-66-3	Chloroform	**0.38**	0.17	**0.077**	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.83	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	0.17	ND	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.030	
71-43-2	Benzene	**0.83**	0.17	**0.26**	0.052	
56-23-5	Carbon Tetrachloride	**0.50**	0.17	**0.079**	0.026	
110-82-7	Cyclohexane	ND	1.7	ND	0.48	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.036	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.83	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.41	
142-82-5	n-Heptane	ND	0.83	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.83	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.030	
108-88-3	Toluene	**1.8**	0.83	**0.47**	0.22	
591-78-6	2-Hexanone	ND	0.83	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.17	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.022	
123-86-4	n-Butyl Acetate	**0.92**	0.83	**0.19**	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00143

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.44 Final Pressure (psig): 4.03

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.83	ND	0.18	
127-18-4	Tetrachloroethene	ND	0.17	ND	0.024	
108-90-7	Chlorobenzene	ND	0.17	ND	0.036	
100-41-4	Ethylbenzene	ND	0.83	ND	0.19	
179601-23-1	m,p-Xylenes	**1.1**	0.83	**0.24**	0.19	
75-25-2	Bromoform	ND	0.83	ND	0.080	
100-42-5	Styrene	ND	0.83	ND	0.20	
95-47-6	o-Xylene	ND	0.83	ND	0.19	
111-84-2	n-Nonane	ND	0.83	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.024	
98-82-8	Cumene	ND	0.83	ND	0.17	
80-56-8	alpha-Pinene	ND	0.83	ND	0.15	
103-65-1	n-Propylbenzene	ND	0.83	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.83	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.83	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	ND	0.83	ND	0.17	
100-44-7	Benzyl Chloride	ND	0.83	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.028	
106-46-7	1,4-Dichlorobenzene	**5.8**	0.17	**0.96**	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.17	ND	0.028	
5989-27-5	d-Limonene	**1.3**	0.83	**0.23**	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	ND	0.086	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	ND	0.11	
91-20-3	Naphthalene	ND	0.83	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.83	ND	0.078	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00159

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): -3.89

Canister Dilution Factor: 1.18

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.59	ND	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.3**	0.59	**0.26**	0.12	
74-87-3	Chloromethane	**0.29**	0.24	**0.14**	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.59	ND	0.084	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.046	
106-99-0	1,3-Butadiene	ND	0.24	ND	0.11	
74-83-9	Bromomethane	ND	0.24	ND	0.061	
75-00-3	Chloroethane	ND	0.24	ND	0.089	
64-17-5	Ethanol	**14**	5.9	**7.2**	3.1	
75-05-8	Acetonitrile	ND	0.59	ND	0.35	
107-02-8	Acrolein	ND	2.4	ND	1.0	
67-64-1	Acetone	**9.0**	5.9	**3.8**	2.5	
75-69-4	Trichlorofluoromethane	**0.68**	0.12	**0.12**	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.9	ND	2.4	
107-13-1	Acrylonitrile	ND	0.59	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.030	
75-09-2	Methylene Chloride	**8.7**	0.59	**2.5**	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.038	
76-13-1	Trichlorotrifluoroethane	**0.30**	0.12	**0.039**	0.015	
75-15-0	Carbon Disulfide	ND	5.9	ND	1.9	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.030	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.033	
108-05-4	Vinyl Acetate	ND	5.9	ND	1.7	
78-93-3	2-Butanone (MEK)	ND	5.9	ND	2.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00159

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): -3.89

Canister Dilution Factor: 1.18

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.030	
141-78-6	Ethyl Acetate	ND	1.2	ND	0.33	
110-54-3	n-Hexane	ND	0.59	ND	0.17	
67-66-3	Chloroform	**0.15**	0.12	**0.030**	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.59	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.022	
71-43-2	Benzene	**0.19**	0.12	**0.058**	0.037	
56-23-5	Carbon Tetrachloride	**0.28**	0.12	**0.044**	0.019	
110-82-7	Cyclohexane	ND	1.2	ND	0.34	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.026	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.022	
123-91-1	1,4-Dioxane	ND	0.59	ND	0.16	
80-62-6	Methyl Methacrylate	ND	1.2	ND	0.29	
142-82-5	n-Heptane	ND	0.59	ND	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	0.59	ND	0.13	
108-10-1	4-Methyl-2-pentanone	ND	0.59	ND	0.14	
10061-02-6	trans-1,3-Dichloropropene	ND	0.59	ND	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.022	
108-88-3	Toluene	ND	0.59	ND	0.16	
591-78-6	2-Hexanone	ND	0.59	ND	0.14	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.015	
123-86-4	n-Butyl Acetate	ND	0.59	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P1601691-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00159

Date Collected: 3/30/16

Date Received: 4/1/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): -3.89

Canister Dilution Factor: 1.18

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.59	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.017	
108-90-7	Chlorobenzene	ND	0.12	ND	0.026	
100-41-4	Ethylbenzene	ND	0.59	ND	0.14	
179601-23-1	m,p-Xylenes	ND	0.59	ND	0.14	
75-25-2	Bromoform	ND	0.59	ND	0.057	
100-42-5	Styrene	ND	0.59	ND	0.14	
95-47-6	o-Xylene	ND	0.59	ND	0.14	
111-84-2	n-Nonane	ND	0.59	ND	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.017	
98-82-8	Cumene	ND	0.59	ND	0.12	
80-56-8	alpha-Pinene	ND	0.59	ND	0.11	
103-65-1	n-Propylbenzene	ND	0.59	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.59	ND	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	0.59	ND	0.12	
95-63-6	1,2,4-Trimethylbenzene	ND	0.59	ND	0.12	
100-44-7	Benzyl Chloride	ND	0.59	ND	0.11	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	**12**	0.12	**1.9**	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	ND	0.59	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.59	ND	0.061	
120-82-1	1,2,4-Trichlorobenzene	ND	0.59	ND	0.080	
91-20-3	Naphthalene	ND	0.59	ND	0.11	
87-68-3	Hexachlorobutadiene	ND	0.59	ND	0.055	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160402-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160402-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/2/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.20	ND	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.090	
74-83-9	Bromomethane	ND	0.20	ND	0.052	
75-00-3	Chloroethane	ND	0.20	ND	0.076	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	2.0	ND	0.87	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	ND	2.0	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601691

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/30/16
Analyst: Wida Ang Date(s) Received: 4/1/16
Sample Type: Canister(s) Date(s) Analyzed: 4/2 - 4/4/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160402-MB	**106**	**99**	**101**	70-130	
P160404-MB	**104**	**100**	**102**	70-130	
P160402-LCS	**102**	**95**	**103**	70-130	
P160404-LCS	**100**	**95**	**103**	70-130	
P1601691-001	**102**	**97**	**103**	70-130	
P1601691-002	**102**	**98**	**103**	70-130	
P1601691-003	**102**	**97**	**103**	70-130	
P1601691-004	**103**	**98**	**101**	70-130	
P1601691-005	**103**	**97**	**103**	70-130	
P1601691-005DUP	**103**	**96**	**103**	70-130	
P1601691-006	**103**	**98**	**101**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**166**	**85**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**164**	**87**	65-117	
74-87-3	Chloromethane	200	**185**	**93**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**173**	**85**	65-122	
75-01-4	Vinyl Chloride	200	**193**	**97**	65-128	
106-99-0	1,3-Butadiene	206	**222**	**108**	62-143	
74-83-9	Bromomethane	202	**190**	**94**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**839**	**84**	57-126	
75-05-8	Acetonitrile	212	**175**	**83**	51-134	
107-02-8	Acrolein	214	**185**	**86**	55-146	
67-64-1	Acetone	1,080	**853**	**79**	57-120	
75-69-4	Trichlorofluoromethane	216	**168**	**78**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**377**	**90**	59-129	
107-13-1	Acrylonitrile	212	**202**	**95**	64-136	
75-35-4	1,1-Dichloroethene	216	**199**	**92**	72-123	
75-09-2	Methylene Chloride	222	**176**	**79**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**221**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**188**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**149**	**71**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**201**	**96**	69-129	
75-34-3	1,1-Dichloroethane	212	**183**	**86**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**190**	**88**	55-128	
108-05-4	Vinyl Acetate	1,040	**1020**	**98**	66-140	
78-93-3	2-Butanone (MEK)	220	**159**	**72**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**201**	**92**	65-125	
141-78-6	Ethyl Acetate	428	**390**	**91**	64-132	
110-54-3	n-Hexane	212	**150**	**71**	58-126	
67-66-3	Chloroform	224	**190**	**85**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**200**	**91**	64-123	
107-06-2	1,2-Dichloroethane	214	**190**	**89**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**200**	**95**	68-120	
71-43-2	Benzene	226	**184**	**81**	61-110	
56-23-5	Carbon Tetrachloride	230	**211**	**92**	65-137	
110-82-7	Cyclohexane	424	**366**	**86**	68-122	
78-87-5	1,2-Dichloropropane	216	**193**	**89**	67-122	
75-27-4	Bromodichloromethane	218	**213**	**98**	71-124	
79-01-6	Trichloroethene	216	**181**	**84**	71-121	
123-91-1	1,4-Dioxane	210	**218**	**104**	67-122	
80-62-6	Methyl Methacrylate	422	**379**	**90**	76-130	
142-82-5	n-Heptane	216	**179**	**83**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**199**	**96**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**212**	**96**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**212**	**101**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**200**	**93**	73-121	
108-88-3	Toluene	218	**152**	**70**	67-117	
591-78-6	2-Hexanone	220	**207**	**94**	59-128	
124-48-1	Dibromochloromethane	220	**216**	**98**	73-132	
106-93-4	1,2-Dibromoethane	218	**203**	**93**	73-128	
123-86-4	n-Butyl Acetate	226	**225**	**100**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P160402-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**177**	**84**	67-124	
127-18-4	Tetrachloroethene	202	**169**	**84**	65-126	
108-90-7	Chlorobenzene	220	**186**	**85**	68-120	
100-41-4	Ethylbenzene	218	**189**	**87**	69-123	
179601-23-1	m,p-Xylenes	428	**368**	**86**	67-125	
75-25-2	Bromoform	228	**217**	**95**	68-153	
100-42-5	Styrene	222	**210**	**95**	68-132	
95-47-6	o-Xylene	210	**183**	**87**	67-124	
111-84-2	n-Nonane	204	**183**	**90**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**193**	**92**	72-128	
98-82-8	Cumene	208	**181**	**87**	67-124	
80-56-8	alpha-Pinene	212	**187**	**88**	67-129	
103-65-1	n-Propylbenzene	204	**181**	**89**	67-125	
622-96-8	4-Ethyltoluene	214	**189**	**88**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**187**	**87**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**194**	**89**	62-134	
100-44-7	Benzyl Chloride	220	**236**	**107**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**199**	**87**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**186**	**89**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**196**	**89**	62-134	
5989-27-5	d-Limonene	210	**199**	**95**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**215**	**99**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**198**	**86**	60-145	
91-20-3	Naphthalene	218	**187**	**86**	56-158	
87-68-3	Hexachlorobutadiene	230	**190**	**83**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**164**	**84**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**159**	**85**	65-117	
74-87-3	Chloromethane	200	**183**	**92**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**168**	**82**	65-122	
75-01-4	Vinyl Chloride	200	**192**	**96**	65-128	
106-99-0	1,3-Butadiene	206	**220**	**107**	62-143	
74-83-9	Bromomethane	202	**189**	**94**	65-130	
75-00-3	Chloroethane	200	**180**	**90**	69-126	
64-17-5	Ethanol	998	**829**	**83**	57-126	
75-05-8	Acetonitrile	212	**173**	**82**	51-134	
107-02-8	Acrolein	214	**182**	**85**	55-146	
67-64-1	Acetone	1,080	**839**	**78**	57-120	
75-69-4	Trichlorofluoromethane	216	**162**	**75**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**368**	**88**	59-129	
107-13-1	Acrylonitrile	212	**198**	**93**	64-136	
75-35-4	1,1-Dichloroethene	216	**194**	**90**	72-123	
75-09-2	Methylene Chloride	222	**173**	**78**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**217**	**100**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**183**	**83**	68-118	
75-15-0	Carbon Disulfide	210	**147**	**70**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**197**	**94**	69-129	
75-34-3	1,1-Dichloroethane	212	**179**	**84**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**185**	**86**	55-128	
108-05-4	Vinyl Acetate	1,040	**1000**	**96**	66-140	
78-93-3	2-Butanone (MEK)	220	**156**	**71**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691

ALS Sample ID: P160404-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**197**	**90**	65-125	
141-78-6	Ethyl Acetate	428	**380**	**89**	64-132	
110-54-3	n-Hexane	212	**148**	**70**	58-126	
67-66-3	Chloroform	224	**185**	**83**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**195**	**89**	64-123	
107-06-2	1,2-Dichloroethane	214	**183**	**86**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**192**	**91**	68-120	
71-43-2	Benzene	226	**179**	**79**	61-110	
56-23-5	Carbon Tetrachloride	230	**203**	**88**	65-137	
110-82-7	Cyclohexane	424	**356**	**84**	68-122	
78-87-5	1,2-Dichloropropane	216	**186**	**86**	67-122	
75-27-4	Bromodichloromethane	218	**204**	**94**	71-124	
79-01-6	Trichloroethene	216	**176**	**81**	71-121	
123-91-1	1,4-Dioxane	210	**211**	**100**	67-122	
80-62-6	Methyl Methacrylate	422	**367**	**87**	76-130	
142-82-5	n-Heptane	216	**174**	**81**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**192**	**92**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**206**	**94**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**204**	**97**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**194**	**90**	73-121	
108-88-3	Toluene	218	**148**	**68**	67-117	
591-78-6	2-Hexanone	220	**201**	**91**	59-128	
124-48-1	Dibromochloromethane	220	**207**	**94**	73-132	
106-93-4	1,2-Dibromoethane	218	**194**	**89**	73-128	
123-86-4	n-Butyl Acetate	226	**217**	**96**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**171**	**81**	67-124	
127-18-4	Tetrachloroethene	202	**163**	**81**	65-126	
108-90-7	Chlorobenzene	220	**179**	**81**	68-120	
100-41-4	Ethylbenzene	218	**182**	**83**	69-123	
179601-23-1	m,p-Xylenes	428	**354**	**83**	67-125	
75-25-2	Bromoform	228	**208**	**91**	68-153	
100-42-5	Styrene	222	**202**	**91**	68-132	
95-47-6	o-Xylene	210	**176**	**84**	67-124	
111-84-2	n-Nonane	204	**177**	**87**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**186**	**89**	72-128	
98-82-8	Cumene	208	**174**	**84**	67-124	
80-56-8	alpha-Pinene	212	**181**	**85**	67-129	
103-65-1	n-Propylbenzene	204	**174**	**85**	67-125	
622-96-8	4-Ethyltoluene	214	**181**	**85**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**179**	**84**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**186**	**85**	62-134	
100-44-7	Benzyl Chloride	220	**228**	**104**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**190**	**83**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**176**	**85**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**187**	**85**	62-134	
5989-27-5	d-Limonene	210	**190**	**90**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**205**	**94**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**187**	**81**	60-145	
91-20-3	Naphthalene	218	**178**	**82**	56-158	
87-68-3	Hexachlorobutadiene	230	**179**	**78**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-005DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00143

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.44 Final Pressure (psig): 4.03

Canister Dilution Factor: 1.66

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result** ppbV	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
Propene	1.37	0.794	1.37	0.799	1.37	**0**	25	
Dichlorodifluoromethane (CFC 12)	2.24	0.452	2.17	0.440	2.205	**3**	25	
Chloromethane	0.526	0.255	0.433	0.210	0.4795	**19**	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	54.8	29.1	54.6	29.0	54.7	**0.4**	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	9.99	4.21	9.68	4.08	9.835	**3**	25	
Trichlorofluoromethane	1.18	0.209	1.16	0.206	1.17	**2**	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	16.8	4.84	16.6	4.77	16.7	**1**	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.521	0.0680	0.511	0.0667	0.516	**2**	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-005DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00143

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.44 Final Pressure (psig): 4.03

Canister Dilution Factor: 1.66

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result **µg/m³**	Duplicate Sample Result **ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	3.14	0.871	3.15	0.873	3.145	**0.3**	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	0.377	0.0772	0.374	0.0765	0.3755	**0.8**	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.830	0.260	0.827	0.259	0.8285	**0.4**	25	
Carbon Tetrachloride	0.500	0.0795	0.496	0.0789	0.498	**0.8**	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	1.76	0.468	1.70	0.452	1.73	**3**	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	0.920	0.194	0.863	0.182	0.8915	**6**	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601691
ALS Sample ID: P1601691-005DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00143

Date Collected: 3/30/16
Date Received: 4/1/16
Date Analyzed: 4/2/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.44 Final Pressure (psig): 4.03

Canister Dilution Factor: 1.66

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	1.05	0.242	1.04	0.239	1.045	**1**	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	5.75	0.957	5.60	0.932	5.675	**3**	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	1.29	0.232	1.24	0.222	1.265	**4**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 2, 2016. For your reference, these analyses have been assigned our service request number P1601716.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601716
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 2, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Three of the four containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

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The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601716
Project ID: Aliso Canyon / 603287048

Date Received: 4/2/2016
Time Received: 08:30

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601716-001	Air	3/31/2016	07:59	AS00438	-6.01	3.63	X
P1601716-002	Air	3/31/2016	09:25	CC00128	-1.14	3.76	X
P1601716-003	Air	3/31/2016	08:56	CC00150	-3.02	3.63	X
P1601716-004	Air	3/31/2016	10:20	CC00151	-0.32	3.55	X

P1C0171C

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3-31-16
	Project Location: Aliso Canyon	Wallace Seamens, Joel Herman, INGRID ZUBIETA	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: Dick Mumms Co.	Serial # : 001336	Expiration Date: 3-26-2017

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Pressure (in/Hg) Flow-Rate (L/min) Start -Pre-	End -Post-	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
19-SU			-29	-12	0817	0759	1422	—	Entech #1412 - Living Room (1st floor) Regulator - RESTEK #FCR00132
			Avg:						
40-SU-G			-26	-2	0903	0925	22	—	Scientific Instrumentation Specialties #33578 Condyne Regulator - F220432 East Dining Room (1st floor)
			Avg:						
52-SU			-27	-5	0932	0856	1404	—	Entech #4246 East Dining Room Flow Controller - Condyne F220503 1st floor
			Avg:						
15-SU			-30	-0.5	1044	1020	1416	—	Entech #3846 East Dining Room Flow Controller - Condyne F221859 1st floor
			Avg:						

ICS 4-1-16

(1) 5 of 30 (2) (3) (4)

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Seamens	Date: 4-1-16	Time: 1750	Received by:		Date: 4/1/16	Time: 1757
Relinquished by:	Date: 4/1/16	Time: 1804	Received by:		Date: 4/1/16	Time: 1758
Relinquished by: to courier	Date: 4/2/16	Time: 880	Received by:		Date: 4/2/16	Time: 8330

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601716

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/2/16 Date opened: 4/2/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601716-001.01	Canister					
P1601716-002.01	Canister					
P1601716-003.01	Canister					
P1601716-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers):

Samples were picked up at 0830 and received in the lab at 0900

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P1601716-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00438

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.01 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.11

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.6**	1.1	0.30	**2.1**	0.61	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.1	0.36	**0.44**	0.21	0.073	
74-87-3	Chloromethane	**0.49**	0.42	0.30	**0.24**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.40	ND	0.15	0.057	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.083	0.078	
106-99-0	1,3-Butadiene	ND	0.42	0.30	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.42	0.20	ND	0.11	0.051	
75-00-3	Chloroethane	ND	0.42	0.18	ND	0.16	0.070	
64-17-5	Ethanol	**33**	11	1.7	**18**	5.6	0.90	
75-05-8	Acetonitrile	ND	1.1	0.38	ND	0.63	0.23	
107-02-8	Acrolein	**1.6**	4.2	0.36	**0.68**	1.8	0.16	**J**
67-64-1	Acetone	**16**	11	1.6	**6.7**	4.4	0.68	
75-69-4	Trichlorofluoromethane	**1.2**	0.21	0.12	**0.21**	0.038	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.3**	11	0.89	**1.7**	4.3	0.36	**J**
107-13-1	Acrylonitrile	ND	1.1	0.36	ND	0.49	0.17	
75-35-4	1,1-Dichloroethene	ND	0.21	0.20	ND	0.053	0.050	
75-09-2	Methylene Chloride	**70**	1.1	0.36	**20**	0.30	0.10	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.067	0.051	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.21	0.17	**0.069**	0.028	0.022	
75-15-0	Carbon Disulfide	ND	11	0.32	ND	3.4	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.048	
75-34-3	1,1-Dichloroethane	ND	0.21	0.17	ND	0.052	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.20	ND	0.059	0.054	
108-05-4	Vinyl Acetate	ND	11	1.4	ND	3.0	0.39	
78-93-3	2-Butanone (MEK)	**0.98**	11	0.44	**0.33**	3.6	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00438

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.01 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.11

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.049	
141-78-6	Ethyl Acetate	**0.74**	2.1	0.74	**0.21**	0.59	0.21	**J**
110-54-3	n-Hexane	**0.53**	1.1	0.32	**0.15**	0.30	0.090	**J**
67-66-3	Chloroform	ND	0.21	0.19	ND	0.043	0.038	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.42	ND	0.36	0.14	
107-06-2	1,2-Dichloroethane	ND	0.21	0.13	ND	0.052	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.16	ND	0.039	0.029	
71-43-2	Benzene	**0.46**	0.21	0.17	**0.15**	0.066	0.052	
56-23-5	Carbon Tetrachloride	**0.49**	0.21	0.18	**0.077**	0.034	0.029	
110-82-7	Cyclohexane	ND	2.1	0.61	ND	0.61	0.18	
78-87-5	1,2-Dichloropropane	ND	0.21	0.18	ND	0.046	0.038	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.032	0.021	
79-01-6	Trichloroethene	ND	0.21	0.19	ND	0.039	0.035	
123-91-1	1,4-Dioxane	ND	1.1	0.34	ND	0.29	0.094	
80-62-6	Methyl Methacrylate	ND	2.1	0.65	ND	0.52	0.16	
142-82-5	n-Heptane	ND	1.1	0.36	ND	0.26	0.088	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.23	0.065	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.34	ND	0.26	0.082	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.34	ND	0.23	0.074	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.039	0.031	
108-88-3	Toluene	**0.84**	1.1	0.36	**0.22**	0.28	0.095	**J**
591-78-6	2-Hexanone	ND	1.1	0.34	ND	0.26	0.082	
124-48-1	Dibromochloromethane	ND	0.21	0.18	ND	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**3.6**	1.1	0.34	**0.75**	0.22	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00438

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.01 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.11

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.51**	1.1	0.38	**0.11**	0.23	0.081	**J**
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.18	ND	0.046	0.038	
100-41-4	Ethylbenzene	**0.70**	1.1	0.34	**0.16**	0.24	0.078	**J**
179601-23-1	m,p-Xylenes	**3.0**	1.1	0.61	**0.70**	0.24	0.14	
75-25-2	Bromoform	ND	1.1	0.32	ND	0.10	0.031	
100-42-5	Styrene	ND	1.1	0.32	ND	0.25	0.074	
95-47-6	o-Xylene	**1.7**	1.1	0.32	**0.38**	0.24	0.073	
111-84-2	n-Nonane	**12**	1.1	0.32	**2.2**	0.20	0.060	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.18	ND	0.031	0.026	
98-82-8	Cumene	**0.38**	1.1	0.32	**0.078**	0.21	0.064	**J**
80-56-8	alpha-Pinene	**3.8**	1.1	0.30	**0.69**	0.19	0.053	
103-65-1	n-Propylbenzene	**0.80**	1.1	0.34	**0.16**	0.21	0.069	**J**
622-96-8	4-Ethyltoluene	**0.91**	1.1	0.34	**0.18**	0.21	0.069	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.96**	1.1	0.34	**0.19**	0.21	0.069	**J**
95-63-6	1,2,4-Trimethylbenzene	**2.6**	1.1	0.32	**0.53**	0.21	0.064	
100-44-7	Benzyl Chloride	ND	1.1	0.23	ND	0.20	0.045	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.20	ND	0.035	0.033	
5989-27-5	d-Limonene	**2.3**	1.1	0.30	**0.42**	0.19	0.053	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.045	
91-20-3	Naphthalene	ND	1.1	0.38	ND	0.20	0.072	
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.099	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

ALS Project ID: P1601716

Client Project ID: **Aliso Canyon / 603287048**

ALS Sample ID: P1601716-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/31/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/2/16
Analyst:	Wida Ang	Date Analyzed:	4/4/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00438		

Initial Pressure (psig): -6.01 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.11

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.49	Methyl Alcohol	**12**	
13.30	n-Hexanal	**28**	
15.49	n-Heptanal	**6.7**	
17.18	n-Octanal	**13**	
17.41	n-Decane	**8.6**	
17.74	unknown	**5.1**	
18.47	n-Nonanal	**9.2**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P1601716-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00128

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -1.14 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.6**	0.68	0.19	**2.7**	0.40	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.68	0.23	**0.43**	0.14	0.047	
74-87-3	Chloromethane	**0.58**	0.27	0.19	**0.28**	0.13	0.092	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	0.26	ND	0.097	0.037	
75-01-4	Vinyl Chloride	ND	0.14	0.13	ND	0.053	0.051	
106-99-0	1,3-Butadiene	ND	0.27	0.19	ND	0.12	0.086	
74-83-9	Bromomethane	ND	0.27	0.13	ND	0.070	0.033	
75-00-3	Chloroethane	ND	0.27	0.12	ND	0.10	0.045	
64-17-5	Ethanol	**440**	6.8	1.1	**230**	3.6	0.58	
75-05-8	Acetonitrile	**0.46**	0.68	0.24	**0.27**	0.41	0.15	**J**
107-02-8	Acrolein	**1.4**	2.7	0.23	**0.60**	1.2	0.10	**J**
67-64-1	Acetone	**38**	6.8	1.0	**16**	2.9	0.44	
75-69-4	Trichlorofluoromethane	**1.0**	0.14	0.078	**0.18**	0.024	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.2**	6.8	0.57	**2.5**	2.8	0.23	**J**
107-13-1	Acrylonitrile	**0.35**	0.68	0.23	**0.16**	0.31	0.11	**J**
75-35-4	1,1-Dichloroethene	ND	0.14	0.13	ND	0.034	0.032	
75-09-2	Methylene Chloride	**480**	6.8	2.3	**140**	2.0	0.67	**B, D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	0.10	ND	0.043	0.033	
76-13-1	Trichlorotrifluoroethane	**0.37**	0.14	0.11	**0.048**	0.018	0.014	
75-15-0	Carbon Disulfide	ND	6.8	0.20	ND	2.2	0.066	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.12	ND	0.034	0.031	
75-34-3	1,1-Dichloroethane	ND	0.14	0.11	ND	0.034	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	0.13	ND	0.038	0.035	
108-05-4	Vinyl Acetate	**2.9**	6.8	0.88	**0.81**	1.9	0.25	**J**
78-93-3	2-Butanone (MEK)	**1.3**	6.8	0.29	**0.44**	2.3	0.097	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00128

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -1.14 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.13	ND	0.034	0.032	
141-78-6	Ethyl Acetate	**5.1**	1.4	0.48	**1.4**	0.38	0.13	
110-54-3	n-Hexane	**0.30**	0.68	0.20	**0.086**	0.19	0.058	**J**
67-66-3	Chloroform	**0.21**	0.14	0.12	**0.043**	0.028	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.68	0.27	ND	0.23	0.092	
107-06-2	1,2-Dichloroethane	**3.9**	0.14	0.084	**0.97**	0.034	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.10	ND	0.025	0.018	
71-43-2	Benzene	**0.51**	0.14	0.11	**0.16**	0.043	0.034	
56-23-5	Carbon Tetrachloride	**0.34**	0.14	0.12	**0.054**	0.022	0.019	
110-82-7	Cyclohexane	ND	1.4	0.39	ND	0.40	0.11	
78-87-5	1,2-Dichloropropane	ND	0.14	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	**0.12**	0.14	0.092	**0.018**	0.020	0.014	**J**
79-01-6	Trichloroethene	ND	0.14	0.12	ND	0.025	0.023	
123-91-1	1,4-Dioxane	ND	0.68	0.22	ND	0.19	0.060	
80-62-6	Methyl Methacrylate	ND	1.4	0.42	ND	0.33	0.10	
142-82-5	n-Heptane	**0.27**	0.68	0.23	**0.067**	0.17	0.056	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	0.19	ND	0.15	0.042	
108-10-1	4-Methyl-2-pentanone	**0.31**	0.68	0.22	**0.076**	0.17	0.053	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	0.22	ND	0.15	0.048	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.11	ND	0.025	0.020	
108-88-3	Toluene	**1.5**	0.68	0.23	**0.41**	0.18	0.061	
591-78-6	2-Hexanone	ND	0.68	0.22	ND	0.17	0.053	
124-48-1	Dibromochloromethane	**0.29**	0.14	0.12	**0.034**	0.016	0.014	
106-93-4	1,2-Dibromoethane	ND	0.14	0.12	ND	0.018	0.015	
123-86-4	n-Butyl Acetate	**0.82**	0.68	0.22	**0.17**	0.14	0.046	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00128

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -1.14 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.68	0.24	ND	0.15	0.052	
127-18-4	Tetrachloroethene	**0.099**	0.14	0.098	**0.015**	0.020	0.014	**J**
108-90-7	Chlorobenzene	ND	0.14	0.11	ND	0.030	0.025	
100-41-4	Ethylbenzene	**0.28**	0.68	0.22	**0.064**	0.16	0.050	**J**
179601-23-1	m,p-Xylenes	**0.65**	0.68	0.39	**0.15**	0.16	0.091	**J**
75-25-2	Bromoform	**0.27**	0.68	0.20	**0.026**	0.066	0.020	**J**
100-42-5	Styrene	**0.28**	0.68	0.20	**0.066**	0.16	0.048	**J**
95-47-6	o-Xylene	**0.26**	0.68	0.20	**0.061**	0.16	0.047	**J**
111-84-2	n-Nonane	ND	0.68	0.20	ND	0.13	0.039	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.11	ND	0.020	0.017	
98-82-8	Cumene	ND	0.68	0.20	ND	0.14	0.042	
80-56-8	alpha-Pinene	**1.8**	0.68	0.19	**0.33**	0.12	0.034	
103-65-1	n-Propylbenzene	ND	0.68	0.22	ND	0.14	0.044	
622-96-8	4-Ethyltoluene	ND	0.68	0.22	ND	0.14	0.044	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	0.22	ND	0.14	0.044	
95-63-6	1,2,4-Trimethylbenzene	**0.23**	0.68	0.20	**0.046**	0.14	0.042	**J**
100-44-7	Benzyl Chloride	ND	0.68	0.15	ND	0.13	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.14	0.10	ND	0.023	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.14	0.10	ND	0.023	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.14	0.13	ND	0.023	0.021	
5989-27-5	d-Limonene	**2.8**	0.68	0.19	**0.50**	0.12	0.034	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.68	0.13	ND	0.070	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.68	0.22	ND	0.092	0.029	
91-20-3	Naphthalene	**0.25**	0.68	0.24	**0.047**	0.13	0.047	**J**
87-68-3	Hexachlorobutadiene	ND	0.68	0.19	ND	0.064	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/31/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/2/16
Analyst:	Wida Ang	Date Analyzed:	4/4/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	CC00128		

Initial Pressure (psig): -1.14 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.36

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.51	Methyl Alcohol	**18**	
4.71	n-Butane	**20**	
6.50	Isoprene	**3.5**	
7.92	Methylcyclobutane	**5.6**	
8.43	Acetic Acid	**3.6**	
16.29	1-Butoxy-2-propanol	**3.0**	
17.26	unknown	**24**	
18.47	n-Nonanal	**3.6**	
19.12	unknown	**73**	
20.71	unknown	**5.5**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P1601716-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00150

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**14**	0.79	0.22	**8.0**	0.46	0.13	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.79	0.27	**0.44**	0.16	0.054	
74-87-3	Chloromethane	**0.55**	0.31	0.22	**0.27**	0.15	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	0.30	ND	0.11	0.043	
75-01-4	Vinyl Chloride	ND	0.16	0.15	ND	0.061	0.058	
106-99-0	1,3-Butadiene	ND	0.31	0.22	ND	0.14	0.099	
74-83-9	Bromomethane	ND	0.31	0.15	ND	0.081	0.038	
75-00-3	Chloroethane	ND	0.31	0.14	ND	0.12	0.052	
64-17-5	Ethanol	**900**	79	13	**480**	42	6.7	**D**
75-05-8	Acetonitrile	**3.8**	0.79	0.28	**2.3**	0.47	0.17	
107-02-8	Acrolein	**0.65**	3.1	0.27	**0.28**	1.4	0.12	**J**
67-64-1	Acetone	**20**	7.9	1.2	**8.4**	3.3	0.51	
75-69-4	Trichlorofluoromethane	**1.2**	0.16	0.089	**0.21**	0.028	0.016	
67-63-0	2-Propanol (Isopropyl Alcohol)	**26**	7.9	0.66	**10**	3.2	0.27	
107-13-1	Acrylonitrile	**4.4**	0.79	0.27	**2.1**	0.36	0.12	
75-35-4	1,1-Dichloroethene	ND	0.16	0.15	ND	0.040	0.037	
75-09-2	Methylene Chloride	**37**	0.79	0.27	**11**	0.23	0.077	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.12	ND	0.050	0.038	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.16	0.13	**0.069**	0.020	0.016	
75-15-0	Carbon Disulfide	ND	7.9	0.24	ND	2.5	0.076	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.14	ND	0.040	0.036	
75-34-3	1,1-Dichloroethane	ND	0.16	0.12	ND	0.039	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.15	ND	0.044	0.041	
108-05-4	Vinyl Acetate	**2.2**	7.9	1.0	**0.61**	2.2	0.29	**J**
78-93-3	2-Butanone (MEK)	**1.3**	7.9	0.33	**0.46**	2.7	0.11	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00150

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.14	ND	0.040	0.036	
141-78-6	Ethyl Acetate	**13**	1.6	0.55	**3.6**	0.44	0.15	
110-54-3	n-Hexane	**0.28**	0.79	0.24	**0.079**	0.22	0.067	**J**
67-66-3	Chloroform	**0.20**	0.16	0.14	**0.041**	0.032	0.029	
109-99-9	Tetrahydrofuran (THF)	ND	0.79	0.31	ND	0.27	0.11	
107-06-2	1,2-Dichloroethane	**0.64**	0.16	0.097	**0.16**	0.039	0.024	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.12	ND	0.029	0.021	
71-43-2	Benzene	**0.49**	0.16	0.12	**0.15**	0.049	0.039	
56-23-5	Carbon Tetrachloride	**0.46**	0.16	0.14	**0.074**	0.025	0.021	
110-82-7	Cyclohexane	ND	1.6	0.46	ND	0.46	0.13	
78-87-5	1,2-Dichloropropane	ND	0.16	0.13	ND	0.034	0.028	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	ND	0.16	0.14	ND	0.029	0.026	
123-91-1	1,4-Dioxane	**1.6**	0.79	0.25	**0.45**	0.22	0.070	
80-62-6	Methyl Methacrylate	ND	1.6	0.49	ND	0.38	0.12	
142-82-5	n-Heptane	**0.30**	0.79	0.27	**0.072**	0.19	0.065	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.22	ND	0.17	0.048	
108-10-1	4-Methyl-2-pentanone	**0.82**	0.79	0.25	**0.20**	0.19	0.061	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.25	ND	0.17	0.055	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.13	ND	0.029	0.023	
108-88-3	Toluene	**1.5**	0.79	0.27	**0.40**	0.21	0.071	
591-78-6	2-Hexanone	**0.31**	0.79	0.25	**0.076**	0.19	0.061	**J**
124-48-1	Dibromochloromethane	**0.17**	0.16	0.13	**0.020**	0.018	0.016	
106-93-4	1,2-Dibromoethane	ND	0.16	0.13	ND	0.020	0.017	
123-86-4	n-Butyl Acetate	**0.71**	0.79	0.25	**0.15**	0.17	0.053	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00150

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.79	0.28	ND	0.17	0.061	
127-18-4	Tetrachloroethene	ND	0.16	0.11	ND	0.023	0.017	
108-90-7	Chlorobenzene	ND	0.16	0.13	ND	0.034	0.028	
100-41-4	Ethylbenzene	**0.51**	0.79	0.25	**0.12**	0.18	0.058	**J**
179601-23-1	m,p-Xylenes	**0.97**	0.79	0.46	**0.22**	0.18	0.10	
75-25-2	Bromoform	ND	0.79	0.24	ND	0.076	0.023	
100-42-5	Styrene	ND	0.79	0.24	ND	0.18	0.055	
95-47-6	o-Xylene	**0.38**	0.79	0.24	**0.088**	0.18	0.054	**J**
111-84-2	n-Nonane	ND	0.79	0.24	ND	0.15	0.045	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.13	ND	0.023	0.019	
98-82-8	Cumene	ND	0.79	0.24	ND	0.16	0.048	
80-56-8	alpha-Pinene	**1.2**	0.79	0.22	**0.21**	0.14	0.039	
103-65-1	n-Propylbenzene	ND	0.79	0.25	ND	0.16	0.051	
622-96-8	4-Ethyltoluene	ND	0.79	0.25	ND	0.16	0.051	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	0.25	ND	0.16	0.051	
95-63-6	1,2,4-Trimethylbenzene	**0.32**	0.79	0.24	**0.065**	0.16	0.048	**J**
100-44-7	Benzyl Chloride	ND	0.79	0.17	ND	0.15	0.033	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.12	ND	0.026	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.16	0.12	ND	0.026	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.15	ND	0.026	0.024	
5989-27-5	d-Limonene	**20**	0.79	0.22	**3.5**	0.14	0.039	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.16	ND	0.081	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	0.79	0.25	ND	0.11	0.034	
91-20-3	Naphthalene	**0.46**	0.79	0.28	**0.088**	0.15	0.054	**J**
87-68-3	Hexachlorobutadiene	ND	0.79	0.22	ND	0.074	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/31/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/2/16
Analyst:	Wida Ang	Date Analyzed:	4/4/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	CC00150		

Initial Pressure (psig): -3.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.57

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.35	Isobutane	**45**	
4.51	Methyl Alcohol	**26**	
8.47	Acetic Acid	**8.9**	
10.15	1-Butanol	**48**	
13.35	unknown	**3.5**	
17.59	2-Ethyl-1-hexanol	**3.3**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P1601716-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00151

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.32 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.9**	0.64	0.18	**2.8**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.64	0.22	**0.44**	0.13	0.044	
74-87-3	Chloromethane	**0.54**	0.25	0.18	**0.26**	0.12	0.086	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	0.24	ND	0.091	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.047	
106-99-0	1,3-Butadiene	ND	0.25	0.18	ND	0.11	0.080	
74-83-9	Bromomethane	ND	0.25	0.12	ND	0.065	0.030	
75-00-3	Chloroethane	ND	0.25	0.11	ND	0.096	0.042	
64-17-5	Ethanol	**240**	6.4	1.0	**120**	3.4	0.54	
75-05-8	Acetonitrile	**1.8**	0.64	0.23	**1.1**	0.38	0.14	
107-02-8	Acrolein	**1.2**	2.5	0.22	**0.53**	1.1	0.094	**J**
67-64-1	Acetone	**19**	6.4	0.98	**8.2**	2.7	0.41	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.072	**0.20**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**7.6**	6.4	0.53	**3.1**	2.6	0.22	
107-13-1	Acrylonitrile	**1.0**	0.64	0.22	**0.47**	0.29	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**93**	0.64	0.22	**27**	0.18	0.062	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.097	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.13	0.10	**0.070**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.4	0.19	ND	2.0	0.061	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.031	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.035	0.033	
108-05-4	Vinyl Acetate	**3.1**	6.4	0.83	**0.89**	1.8	0.23	**J**
78-93-3	2-Butanone (MEK)	**1.5**	6.4	0.27	**0.50**	2.2	0.090	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00151

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.32 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
141-78-6	Ethyl Acetate	**16**	1.3	0.44	**4.6**	0.35	0.12	
110-54-3	n-Hexane	**0.54**	0.64	0.19	**0.15**	0.18	0.054	**J**
67-66-3	Chloroform	**0.49**	0.13	0.11	**0.10**	0.026	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.64	0.25	ND	0.22	0.086	
107-06-2	1,2-Dichloroethane	**0.28**	0.13	0.079	**0.068**	0.031	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.094	ND	0.023	0.017	
71-43-2	Benzene	**0.49**	0.13	0.10	**0.15**	0.040	0.031	
56-23-5	Carbon Tetrachloride	**0.75**	0.13	0.11	**0.12**	0.020	0.017	
110-82-7	Cyclohexane	**1.1**	1.3	0.37	**0.32**	0.37	0.11	**J**
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.027	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.086	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	**1.2**	0.64	0.20	**0.33**	0.18	0.056	
80-62-6	Methyl Methacrylate	ND	1.3	0.39	ND	0.31	0.096	
142-82-5	n-Heptane	**0.32**	0.64	0.22	**0.079**	0.16	0.053	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	**0.61**	0.64	0.20	**0.15**	0.16	0.050	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	0.20	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.019	
108-88-3	Toluene	**1.5**	0.64	0.22	**0.40**	0.17	0.057	
591-78-6	2-Hexanone	**0.23**	0.64	0.20	**0.056**	0.16	0.050	**J**
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**0.41**	0.64	0.20	**0.086**	0.13	0.043	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00151

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.32 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.26**	0.64	0.23	**0.056**	0.14	0.049	**J**
127-18-4	Tetrachloroethene	**0.099**	0.13	0.091	**0.015**	0.019	0.013	**J**
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	**0.30**	0.64	0.20	**0.068**	0.15	0.047	**J**
179601-23-1	m,p-Xylenes	**0.85**	0.64	0.37	**0.20**	0.15	0.085	
75-25-2	Bromoform	ND	0.64	0.19	ND	0.061	0.018	
100-42-5	Styrene	ND	0.64	0.19	ND	0.15	0.045	
95-47-6	o-Xylene	**0.37**	0.64	0.19	**0.086**	0.15	0.044	**J**
111-84-2	n-Nonane	**0.33**	0.64	0.19	**0.064**	0.12	0.036	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.64	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**5.1**	0.64	0.18	**0.91**	0.11	0.032	
103-65-1	n-Propylbenzene	ND	0.64	0.20	ND	0.13	0.041	
622-96-8	4-Ethyltoluene	**0.22**	0.64	0.20	**0.044**	0.13	0.041	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.23**	0.64	0.20	**0.047**	0.13	0.041	**J**
95-63-6	1,2,4-Trimethylbenzene	**0.84**	0.64	0.19	**0.17**	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.64	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.094	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.097	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**7.7**	0.64	0.18	**1.4**	0.11	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	0.13	ND	0.066	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.20	ND	0.086	0.027	
91-20-3	Naphthalene	**1.5**	0.64	0.23	**0.29**	0.12	0.044	
87-68-3	Hexachlorobutadiene	ND	0.64	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P1601716-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/31/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/2/16
Analyst:	Wida Ang	Date Analyzed:	4/4/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00151		

Initial Pressure (psig): -0.32 Final Pressure (psig): 3.55

Canister Dilution Factor: 1.27

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.51	Methyl Alcohol	**18**	
8.13	n-Butanal	**7.1**	
10.16	1-Butanol	**100**	
16.54	Benzaldehyde	**12**	
17.18	unknown hydrocarbon	**4.1**	
17.42	unknown	**3.5**	
17.66	3-Carene	**3.0**	
17.73	o-Cymene	**3.6**	
17.92	unknown hydrocarbon	**3.1**	
18.03	unknown hydrocarbon	**13**	
18.26	unknown hydrocarbon	**11**	
18.30	unknown hydrocarbon	**7.6**	
18.47	unknown hydrocarbon	**9.7**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P160404-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.17**	0.50	0.17	**0.049**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716

ALS Sample ID: P160404-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601716

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/31/16
Analyst: Evelyn Alvarez Date(s) Received: 4/2/16
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 4/4/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160404-MB	**104**	**100**	**102**	70-130	
	P160404-LCS	**100**	**95**	**103**	70-130	
	P1601716-001	**102**	**97**	**103**	70-130	
	P1601716-002	**101**	**97**	**103**	70-130	
	P1601716-003	**100**	**96**	**103**	70-130	
	P1601716-004	**101**	**97**	**105**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**164**	**84**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**159**	**85**	65-117	
74-87-3	Chloromethane	200	**183**	**92**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**168**	**82**	65-122	
75-01-4	Vinyl Chloride	200	**192**	**96**	65-128	
106-99-0	1,3-Butadiene	206	**220**	**107**	62-143	
74-83-9	Bromomethane	202	**189**	**94**	65-130	
75-00-3	Chloroethane	200	**180**	**90**	69-126	
64-17-5	Ethanol	998	**829**	**83**	57-126	
75-05-8	Acetonitrile	212	**173**	**82**	51-134	
107-02-8	Acrolein	214	**182**	**85**	55-146	
67-64-1	Acetone	1,080	**839**	**78**	57-120	
75-69-4	Trichlorofluoromethane	216	**162**	**75**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**368**	**88**	59-129	
107-13-1	Acrylonitrile	212	**198**	**93**	64-136	
75-35-4	1,1-Dichloroethene	216	**194**	**90**	72-123	
75-09-2	Methylene Chloride	222	**173**	**78**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**217**	**100**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**183**	**83**	68-118	
75-15-0	Carbon Disulfide	210	**147**	**70**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**197**	**94**	69-129	
75-34-3	1,1-Dichloroethane	212	**179**	**84**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**185**	**86**	55-128	
108-05-4	Vinyl Acetate	1,040	**1000**	**96**	66-140	
78-93-3	2-Butanone (MEK)	220	**156**	**71**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**197**	**90**	65-125	
141-78-6	Ethyl Acetate	428	**380**	**89**	64-132	
110-54-3	n-Hexane	212	**148**	**70**	58-126	
67-66-3	Chloroform	224	**185**	**83**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**195**	**89**	64-123	
107-06-2	1,2-Dichloroethane	214	**183**	**86**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**192**	**91**	68-120	
71-43-2	Benzene	226	**179**	**79**	61-110	
56-23-5	Carbon Tetrachloride	230	**203**	**88**	65-137	
110-82-7	Cyclohexane	424	**356**	**84**	68-122	
78-87-5	1,2-Dichloropropane	216	**186**	**86**	67-122	
75-27-4	Bromodichloromethane	218	**204**	**94**	71-124	
79-01-6	Trichloroethene	216	**176**	**81**	71-121	
123-91-1	1,4-Dioxane	210	**211**	**100**	67-122	
80-62-6	Methyl Methacrylate	422	**367**	**87**	76-130	
142-82-5	n-Heptane	216	**174**	**81**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**192**	**92**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**206**	**94**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**204**	**97**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**194**	**90**	73-121	
108-88-3	Toluene	218	**148**	**68**	67-117	
591-78-6	2-Hexanone	220	**201**	**91**	59-128	
124-48-1	Dibromochloromethane	220	**207**	**94**	73-132	
106-93-4	1,2-Dibromoethane	218	**194**	**89**	73-128	
123-86-4	n-Butyl Acetate	226	**217**	**96**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601716
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**171**	**81**	67-124	
127-18-4	Tetrachloroethene	202	**163**	**81**	65-126	
108-90-7	Chlorobenzene	220	**179**	**81**	68-120	
100-41-4	Ethylbenzene	218	**182**	**83**	69-123	
179601-23-1	m,p-Xylenes	428	**354**	**83**	67-125	
75-25-2	Bromoform	228	**208**	**91**	68-153	
100-42-5	Styrene	222	**202**	**91**	68-132	
95-47-6	o-Xylene	210	**176**	**84**	67-124	
111-84-2	n-Nonane	204	**177**	**87**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**186**	**89**	72-128	
98-82-8	Cumene	208	**174**	**84**	67-124	
80-56-8	alpha-Pinene	212	**181**	**85**	67-129	
103-65-1	n-Propylbenzene	204	**174**	**85**	67-125	
622-96-8	4-Ethyltoluene	214	**181**	**85**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**179**	**84**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**186**	**85**	62-134	
100-44-7	Benzyl Chloride	220	**228**	**104**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**190**	**83**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**176**	**85**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**187**	**85**	62-134	
5989-27-5	d-Limonene	210	**190**	**90**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**205**	**94**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**187**	**81**	60-145	
91-20-3	Naphthalene	218	**178**	**82**	56-158	
87-68-3	Hexachlorobutadiene	230	**179**	**78**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 6, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 2, 2016. For your reference, these analyses have been assigned our service request number P1601717.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 2:09 pm, Apr 06, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601717
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 2, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

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The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601717
Project ID: Aliso Canyon / 603287048

Date Received: 4/2/2016
Time Received: 08:30

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601717-001	Air	3/31/2016	10:46	CC00147	-0.92	3.61	X
	P1601717-002	Air	3/31/2016	14:03	CC00124	-5.13	3.57	X
	P1601717-003	Air	3/31/2016	14:49	CC00133	-0.33	3.63	X
	P1601717-004	Air	3/31/2016	17:09	CC00157	-3.95	3.64	X
	P1601717-005	Air	3/31/2016	17:09	CC00153	-2.41	3.73	X

P1601717

 WBS 4-1-16

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 3-31-16
	Project Location: Aliso Canyon	Wallace Sconiers, Joel Berman, INGRID ZUBIETA	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez	
	Rotameter: Dieterich Mummy Co.	**Serial # :** 001336	**Expiration Date:** 3-21-2017

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Pressure (in Hg) Flow Rate (L/min) 4/1/16 Start (Pre)	End (Post)	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
1) 2-SU			-29	-3.5	1121	1046	1405		1st floor west living room Entech-10604 Flow Controller-Condyne F221883
			Avg:						
2) 01-SU			-27	-9	1431	1403	1412		1st floor living room Air Toxics Limited - 20566 controller Scientific Instrumentation Specialists - 33776
			Avg:						
3) 03-SU-E			-28.25	0	1504	1449	1425		1st floor dining room Flow Controller: McDaniel Controls # FCR00070 Restek # N6055
			Avg:						
4) 14-SU			-29	-8.5	1749	1709	1400		2nd Floor living room Entech # 4274 McDaniel Controls # FCR00107
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Sconiers	**Date:** 4-1-16	**Time:** 1750	**Received by:**	**Date:** 4/1/16	**Time:** 1757
Relinquished by:	**Date:** 4/1/16	**Time:** 1884	**Received by:**	**Date:** 4/1/16	**Time:** 17:53
Relinquished by: Eunice	**Date:** 4/2/16	**Time:** 830	**Received by:**	**Date:** 4/2/16	**Time:** 08:30

P1601717

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3-31-16
	Project Location: Aliso Canyon	Wallace Stanley, Joel Benson, INGRID ZUBIETA	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez	
	Rotameter: Dich Mumm Co. **Serial # :** C01336 T2 4/1/16	**Expiration Date:** 3-21-2017	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Pressure (in Hg) Flow Rate (L/min) START (Pre 3-31)	END (Post)	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	~~28.5~~						
			Avg:						
41-SU-D	↓	↓	-28.5	-4.5	1749	1709			2nd floor living room Entech #5015 McDaniel Controls Id FCR00141
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Stanley	**Date:** 4-1-16	**Time:** 1750	**Received by:**	**Date:** 4/1/16	**Time:** 1757
Relinquished by: Jennifer Bobwasi	**Date:** 4/1/16	**Time:** 1804	**Received by:**	**Date:** 4/1/16	**Time:** 1800
Relinquished by: FedEx courier	**Date:** 4/2/16	**Time:** 830	**Received by:**	**Date:** 4/2/16	**Time:** 0750

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601717

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/2/16 Date opened: 4/2/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601717-001.01	Canister					
P1601717-002.01	Canister					
P1601717-003.01	Canister					
P1601717-004.01	Canister					
P1601717-005.01	Canister					

Explain any discrepancies: (include lab sample ID numbers):

Samples were picked up at 0830 and received in the lab at 0900.

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P1601717-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00147

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4 - 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -0.92 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**6.6**	0.67	0.19	**3.8**	0.39	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.67	0.23	**0.38**	0.13	0.046	
74-87-3	Chloromethane	**0.60**	0.27	0.19	**0.29**	0.13	0.090	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	0.25	ND	0.095	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.13	ND	0.052	0.049	
106-99-0	1,3-Butadiene	ND	0.27	0.19	ND	0.12	0.084	
74-83-9	Bromomethane	ND	0.27	0.12	ND	0.069	0.032	
75-00-3	Chloroethane	ND	0.27	0.12	ND	0.10	0.044	
64-17-5	Ethanol	**730**	130	21	**390**	71	11	**D**
75-05-8	Acetonitrile	**3.8**	0.67	0.24	**2.3**	0.40	0.14	
107-02-8	Acrolein	**1.2**	2.7	0.23	**0.51**	1.2	0.099	**J**
67-64-1	Acetone	**64**	6.7	1.0	**27**	2.8	0.43	
75-69-4	Trichlorofluoromethane	**0.92**	0.13	0.076	**0.16**	0.024	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**18**	6.7	0.56	**7.4**	2.7	0.23	
107-13-1	Acrylonitrile	**1.4**	0.67	0.23	**0.67**	0.31	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-09-2	Methylene Chloride	**39**	0.67	0.23	**11**	0.19	0.065	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.043	0.032	
76-13-1	Trichlorotrifluoroethane	**0.43**	0.13	0.11	**0.057**	0.017	0.014	
75-15-0	Carbon Disulfide	ND	6.7	0.20	ND	2.1	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-34-3	1,1-Dichloroethane	ND	0.13	0.11	ND	0.033	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.037	0.034	
108-05-4	Vinyl Acetate	ND	6.7	0.86	ND	1.9	0.25	
78-93-3	2-Butanone (MEK)	**1.9**	6.7	0.28	**0.66**	2.3	0.095	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00147

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4 - 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -0.92 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
141-78-6	Ethyl Acetate	**13**	1.3	0.47	**3.5**	0.37	0.13	
110-54-3	n-Hexane	**0.53**	0.67	0.20	**0.15**	0.19	0.057	**J**
67-66-3	Chloroform	**0.23**	0.13	0.12	**0.048**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.67	0.27	ND	0.23	0.090	
107-06-2	1,2-Dichloroethane	**2.5**	0.13	0.082	**0.62**	0.033	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.098	ND	0.024	0.018	
71-43-2	Benzene	**1.2**	0.13	0.11	**0.39**	0.042	0.033	
56-23-5	Carbon Tetrachloride	**0.51**	0.13	0.11	**0.081**	0.021	0.018	
110-82-7	Cyclohexane	**0.51**	1.3	0.39	**0.15**	0.39	0.11	**J**
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	ND	0.13	0.090	ND	0.020	0.014	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.025	0.022	
123-91-1	1,4-Dioxane	**1.1**	0.67	0.21	**0.31**	0.18	0.059	
80-62-6	Methyl Methacrylate	ND	1.3	0.41	ND	0.32	0.10	
142-82-5	n-Heptane	**0.91**	0.67	0.23	**0.22**	0.16	0.055	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	0.19	ND	0.15	0.041	
108-10-1	4-Methyl-2-pentanone	**1.3**	0.67	0.21	**0.31**	0.16	0.052	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	0.21	ND	0.15	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.11	ND	0.024	0.020	
108-88-3	Toluene	**4.2**	0.67	0.23	**1.1**	0.18	0.060	
591-78-6	2-Hexanone	**0.44**	0.67	0.21	**0.11**	0.16	0.052	**J**
124-48-1	Dibromochloromethane	**0.20**	0.13	0.11	**0.024**	0.016	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.015	
123-86-4	n-Butyl Acetate	**1.4**	0.67	0.21	**0.30**	0.14	0.045	

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00147

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4 - 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -0.92 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.2**	0.67	0.24	**0.26**	0.14	0.051	
127-18-4	Tetrachloroethene	**0.71**	0.13	0.096	**0.10**	0.020	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.029	0.024	
100-41-4	Ethylbenzene	**1.5**	0.67	0.21	**0.36**	0.15	0.049	
179601-23-1	m,p-Xylenes	**4.6**	0.67	0.39	**1.1**	0.15	0.089	
75-25-2	Bromoform	ND	0.67	0.20	ND	0.064	0.019	
100-42-5	Styrene	**0.32**	0.67	0.20	**0.076**	0.16	0.047	**J**
95-47-6	o-Xylene	**2.0**	0.67	0.20	**0.47**	0.15	0.046	
111-84-2	n-Nonane	**4.1**	0.67	0.20	**0.78**	0.13	0.038	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	**0.30**	0.67	0.20	**0.061**	0.14	0.041	**J**
80-56-8	alpha-Pinene	**2.8**	0.67	0.19	**0.51**	0.12	0.033	
103-65-1	n-Propylbenzene	**1.0**	0.67	0.21	**0.21**	0.14	0.043	
622-96-8	4-Ethyltoluene	**1.9**	0.67	0.21	**0.38**	0.14	0.043	
108-67-8	1,3,5-Trimethylbenzene	**1.8**	0.67	0.21	**0.37**	0.14	0.043	
95-63-6	1,2,4-Trimethylbenzene	**6.7**	0.67	0.20	**1.4**	0.14	0.041	
100-44-7	Benzyl Chloride	ND	0.67	0.15	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.098	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	**1,500**	2.7	2.0	**250**	0.44	0.34	**D**
95-50-1	1,2-Dichlorobenzene	**0.51**	0.13	0.12	**0.086**	0.022	0.021	
5989-27-5	d-Limonene	**24**	0.67	0.19	**4.4**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	0.13	ND	0.069	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.67	0.21	ND	0.090	0.029	
91-20-3	Naphthalene	**2.3**	0.67	0.24	**0.43**	0.13	0.046	
87-68-3	Hexachlorobutadiene	ND	0.67	0.19	ND	0.062	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/31/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/2/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/4 - 4/5/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.050 Liter(s)
Container ID:	CC00147		

Initial Pressure (psig): -0.92 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.33

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.61	Isobutane	**21**	
5.13	n-Butane	**17**	
12.74	1-Butanol	**300**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P1601717-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00124

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.57

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.4**	0.96	0.27	**2.0**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.96	0.32	**0.40**	0.19	0.066	
74-87-3	Chloromethane	**0.63**	0.38	0.27	**0.31**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	0.36	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.075	0.071	
106-99-0	1,3-Butadiene	ND	0.38	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.18	ND	0.098	0.046	
75-00-3	Chloroethane	ND	0.38	0.17	ND	0.14	0.063	
64-17-5	Ethanol	**84**	9.6	1.5	**45**	5.1	0.81	
75-05-8	Acetonitrile	ND	0.96	0.34	ND	0.57	0.20	
107-02-8	Acrolein	**1.5**	3.8	0.32	**0.65**	1.7	0.14	**J**
67-64-1	Acetone	**20**	9.6	1.5	**8.4**	4.0	0.62	
75-69-4	Trichlorofluoromethane	**1.0**	0.19	0.11	**0.18**	0.034	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.9**	9.6	0.80	**2.8**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.96	0.32	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
75-09-2	Methylene Chloride	**100**	0.96	0.32	**29**	0.28	0.094	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.061	0.046	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.19	0.15	**0.062**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.6	0.29	ND	3.1	0.092	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.047	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.053	0.049	
108-05-4	Vinyl Acetate	ND	9.6	1.2	ND	2.7	0.35	
78-93-3	2-Butanone (MEK)	**1.8**	9.6	0.40	**0.62**	3.2	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P1601717-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00124

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.57

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.048	0.044	
141-78-6	Ethyl Acetate	**1.1**	1.9	0.67	**0.31**	0.53	0.19	**J**
110-54-3	n-Hexane	**0.97**	0.96	0.29	**0.27**	0.27	0.081	
67-66-3	Chloroform	ND	0.19	0.17	ND	0.039	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.96	0.38	ND	0.32	0.13	
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.047	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**1.4**	0.19	0.15	**0.45**	0.060	0.047	
56-23-5	Carbon Tetrachloride	**0.43**	0.19	0.16	**0.068**	0.030	0.026	
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.041	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.96	0.31	ND	0.27	0.085	
80-62-6	Methyl Methacrylate	ND	1.9	0.59	ND	0.47	0.14	
142-82-5	n-Heptane	**0.67**	0.96	0.32	**0.16**	0.23	0.079	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.27	ND	0.21	0.059	
108-10-1	4-Methyl-2-pentanone	**0.32**	0.96	0.31	**0.078**	0.23	0.075	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.31	ND	0.21	0.067	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**5.3**	0.96	0.32	**1.4**	0.25	0.086	
591-78-6	2-Hexanone	ND	0.96	0.31	ND	0.23	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.92**	0.96	0.31	**0.19**	0.20	0.064	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00124

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.57

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.47**	0.96	0.34	**0.10**	0.20	0.074	**J**
127-18-4	Tetrachloroethene	**0.53**	0.19	0.14	**0.078**	0.028	0.020	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.041	0.034	
100-41-4	Ethylbenzene	**0.70**	0.96	0.31	**0.16**	0.22	0.070	**J**
179601-23-1	m,p-Xylenes	**2.1**	0.96	0.55	**0.49**	0.22	0.13	
75-25-2	Bromoform	ND	0.96	0.29	ND	0.092	0.028	
100-42-5	Styrene	**0.45**	0.96	0.29	**0.10**	0.22	0.067	**J**
95-47-6	o-Xylene	**0.69**	0.96	0.29	**0.16**	0.22	0.066	**J**
111-84-2	n-Nonane	**0.53**	0.96	0.29	**0.10**	0.18	0.055	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.023	
98-82-8	Cumene	ND	0.96	0.29	ND	0.19	0.058	
80-56-8	alpha-Pinene	**3.1**	0.96	0.27	**0.55**	0.17	0.048	
103-65-1	n-Propylbenzene	ND	0.96	0.31	ND	0.19	0.062	
622-96-8	4-Ethyltoluene	ND	0.96	0.31	ND	0.19	0.062	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	0.31	ND	0.19	0.062	
95-63-6	1,2,4-Trimethylbenzene	**0.45**	0.96	0.29	**0.091**	0.19	0.058	**J**
100-44-7	Benzyl Chloride	ND	0.96	0.21	ND	0.18	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	**1.2**	0.19	0.15	**0.20**	0.032	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**2.5**	0.96	0.27	**0.45**	0.17	0.048	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.96	0.19	ND	0.099	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	0.31	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.96	0.34	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.96	0.27	ND	0.090	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P1601717-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00133

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4 - 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.33 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**8.8**	0.64	0.18	**5.1**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.64	0.22	**0.38**	0.13	0.044	
74-87-3	Chloromethane	**0.59**	0.26	0.18	**0.28**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	0.24	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.081	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.097	0.042	
64-17-5	Ethanol	**1,000**	64	10	**540**	34	5.4	**D**
75-05-8	Acetonitrile	**0.71**	0.64	0.23	**0.42**	0.38	0.14	
107-02-8	Acrolein	**3.0**	2.6	0.22	**1.3**	1.1	0.095	
67-64-1	Acetone	**590**	6.4	0.99	**250**	2.7	0.42	
75-69-4	Trichlorofluoromethane	**1.0**	0.13	0.073	**0.18**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**19**	6.4	0.54	**7.6**	2.6	0.22	
107-13-1	Acrylonitrile	ND	0.64	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**780**	6.4	2.2	**230**	1.8	0.63	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.097	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.13	0.10	**0.063**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.4	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	**7.3**	6.4	0.83	**2.1**	1.8	0.24	
78-93-3	2-Butanone (MEK)	**11**	6.4	0.27	**3.9**	2.2	0.091	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00133

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4 - 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.33 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
141-78-6	Ethyl Acetate	**47**	1.3	0.45	**13**	0.36	0.12	
110-54-3	n-Hexane	**1.5**	0.64	0.19	**0.43**	0.18	0.054	
67-66-3	Chloroform	**6.4**	0.13	0.11	**1.3**	0.026	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.64	0.26	ND	0.22	0.087	
107-06-2	1,2-Dichloroethane	ND	0.13	0.079	ND	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.023	0.017	
71-43-2	Benzene	**0.65**	0.13	0.10	**0.20**	0.040	0.032	
56-23-5	Carbon Tetrachloride	**0.41**	0.13	0.11	**0.065**	0.020	0.018	
110-82-7	Cyclohexane	**4.2**	1.3	0.37	**1.2**	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	**0.28**	0.13	0.087	**0.042**	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.64	0.20	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.31	0.097	
142-82-5	n-Heptane	**2.1**	0.64	0.22	**0.52**	0.16	0.053	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	**0.45**	0.64	0.20	**0.11**	0.16	0.050	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	0.20	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.019	
108-88-3	Toluene	**4.7**	0.64	0.22	**1.2**	0.17	0.058	
591-78-6	2-Hexanone	**0.56**	0.64	0.20	**0.14**	0.16	0.050	**J**
124-48-1	Dibromochloromethane	**0.47**	0.13	0.11	**0.055**	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**17**	0.64	0.20	**3.5**	0.13	0.043	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00133

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4 - 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.33 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	0.23	ND	0.14	0.049	
127-18-4	Tetrachloroethene	ND	0.13	0.092	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	**0.30**	0.64	0.20	**0.068**	0.15	0.047	**J**
179601-23-1	m,p-Xylenes	**0.82**	0.64	0.37	**0.19**	0.15	0.085	
75-25-2	Bromoform	**0.45**	0.64	0.19	**0.044**	0.062	0.019	**J**
100-42-5	Styrene	**0.26**	0.64	0.19	**0.062**	0.15	0.045	**J**
95-47-6	o-Xylene	**0.29**	0.64	0.19	**0.068**	0.15	0.044	**J**
111-84-2	n-Nonane	**0.22**	0.64	0.19	**0.043**	0.12	0.037	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.64	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**4.3**	0.64	0.18	**0.78**	0.11	0.032	
103-65-1	n-Propylbenzene	ND	0.64	0.20	ND	0.13	0.042	
622-96-8	4-Ethyltoluene	ND	0.64	0.20	ND	0.13	0.042	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	0.20	ND	0.13	0.042	
95-63-6	1,2,4-Trimethylbenzene	**0.27**	0.64	0.19	**0.055**	0.13	0.039	**J**
100-44-7	Benzyl Chloride	ND	0.64	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	**0.43**	0.13	0.097	**0.071**	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**29**	0.64	0.18	**5.3**	0.11	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	0.13	ND	0.066	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.20	ND	0.086	0.028	
91-20-3	Naphthalene	**0.45**	0.64	0.23	**0.085**	0.12	0.044	**J**
87-68-3	Hexachlorobutadiene	ND	0.64	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	3/31/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/2/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/4 - 4/5/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	CC00133		

Initial Pressure (psig): -0.33 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.28

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.62	Isobutane	**17**	
5.14	n-Butane	**25**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P1601717-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00157

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.95 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.9**	0.86	0.24	**1.1**	0.50	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.86	0.29	**0.40**	0.17	0.059	
74-87-3	Chloromethane	**0.66**	0.34	0.24	**0.32**	0.17	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.86	0.32	ND	0.12	0.047	
75-01-4	Vinyl Chloride	ND	0.17	0.16	ND	0.067	0.064	
106-99-0	1,3-Butadiene	ND	0.34	0.24	ND	0.15	0.11	
74-83-9	Bromomethane	ND	0.34	0.16	ND	0.088	0.041	
75-00-3	Chloroethane	ND	0.34	0.15	ND	0.13	0.056	
64-17-5	Ethanol	**42**	8.6	1.4	**22**	4.5	0.73	
75-05-8	Acetonitrile	**0.35**	0.86	0.31	**0.21**	0.51	0.18	**J**
107-02-8	Acrolein	**1.1**	3.4	0.29	**0.46**	1.5	0.13	**J**
67-64-1	Acetone	**16**	8.6	1.3	**6.7**	3.6	0.55	
75-69-4	Trichlorofluoromethane	**1.0**	0.17	0.097	**0.18**	0.030	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.8**	8.6	0.72	**1.1**	3.5	0.29	**J**
107-13-1	Acrylonitrile	ND	0.86	0.29	ND	0.39	0.13	
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.043	0.040	
75-09-2	Methylene Chloride	**53**	0.86	0.29	**15**	0.25	0.084	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.055	0.042	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.17	0.14	**0.064**	0.022	0.018	
75-15-0	Carbon Disulfide	ND	8.6	0.26	ND	2.7	0.082	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.16	ND	0.043	0.039	
75-34-3	1,1-Dichloroethane	ND	0.17	0.14	ND	0.042	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.047	0.044	
108-05-4	Vinyl Acetate	ND	8.6	1.1	ND	2.4	0.32	
78-93-3	2-Butanone (MEK)	**1.2**	8.6	0.36	**0.40**	2.9	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00157

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.95 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.16	ND	0.043	0.040	
141-78-6	Ethyl Acetate	**1.2**	1.7	0.60	**0.35**	0.47	0.17	**J**
110-54-3	n-Hexane	**0.43**	0.86	0.26	**0.12**	0.24	0.073	**J**
67-66-3	Chloroform	**0.19**	0.17	0.15	**0.038**	0.035	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.86	0.34	ND	0.29	0.12	
107-06-2	1,2-Dichloroethane	ND	0.17	0.11	ND	0.042	0.026	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.13	ND	0.031	0.023	
71-43-2	Benzene	**0.74**	0.17	0.14	**0.23**	0.054	0.042	
56-23-5	Carbon Tetrachloride	**0.39**	0.17	0.15	**0.063**	0.027	0.023	
110-82-7	Cyclohexane	ND	1.7	0.50	ND	0.50	0.14	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.037	0.031	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.017	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.032	0.028	
123-91-1	1,4-Dioxane	ND	0.86	0.27	ND	0.24	0.076	
80-62-6	Methyl Methacrylate	ND	1.7	0.53	ND	0.42	0.13	
142-82-5	n-Heptane	ND	0.86	0.29	ND	0.21	0.071	
10061-01-5	cis-1,3-Dichloropropene	ND	0.86	0.24	ND	0.19	0.053	
108-10-1	4-Methyl-2-pentanone	**0.31**	0.86	0.27	**0.076**	0.21	0.067	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.27	ND	0.19	0.060	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.14	ND	0.031	0.025	
108-88-3	Toluene	**2.5**	0.86	0.29	**0.67**	0.23	0.077	
591-78-6	2-Hexanone	ND	0.86	0.27	ND	0.21	0.067	
124-48-1	Dibromochloromethane	ND	0.17	0.15	ND	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.15	ND	0.022	0.019	
123-86-4	n-Butyl Acetate	**1.0**	0.86	0.27	**0.21**	0.18	0.058	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00157

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.95 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.86	0.31	ND	0.18	0.066	
127-18-4	Tetrachloroethene	ND	0.17	0.12	ND	0.025	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.037	0.031	
100-41-4	Ethylbenzene	**0.37**	0.86	0.27	**0.085**	0.20	0.063	**J**
179601-23-1	m,p-Xylenes	**1.0**	0.86	0.50	**0.23**	0.20	0.11	
75-25-2	Bromoform	ND	0.86	0.26	ND	0.083	0.025	
100-42-5	Styrene	**0.35**	0.86	0.26	**0.082**	0.20	0.060	**J**
95-47-6	o-Xylene	**0.37**	0.86	0.26	**0.085**	0.20	0.059	**J**
111-84-2	n-Nonane	**0.31**	0.86	0.26	**0.060**	0.16	0.049	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.14	ND	0.025	0.021	
98-82-8	Cumene	ND	0.86	0.26	ND	0.17	0.052	
80-56-8	alpha-Pinene	**1.7**	0.86	0.24	**0.31**	0.15	0.043	
103-65-1	n-Propylbenzene	ND	0.86	0.27	ND	0.17	0.056	
622-96-8	4-Ethyltoluene	ND	0.86	0.27	ND	0.17	0.056	
108-67-8	1,3,5-Trimethylbenzene	ND	0.86	0.27	ND	0.17	0.056	
95-63-6	1,2,4-Trimethylbenzene	**0.29**	0.86	0.26	**0.058**	0.17	0.052	**J**
100-44-7	Benzyl Chloride	ND	0.86	0.19	ND	0.17	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.13	ND	0.028	0.021	
106-46-7	1,4-Dichlorobenzene	**1.0**	0.17	0.13	**0.17**	0.028	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.028	0.026	
5989-27-5	d-Limonene	**1.7**	0.86	0.24	**0.30**	0.15	0.043	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.86	0.17	ND	0.088	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	0.86	0.27	ND	0.12	0.037	
91-20-3	Naphthalene	ND	0.86	0.31	ND	0.16	0.059	
87-68-3	Hexachlorobutadiene	ND	0.86	0.24	ND	0.080	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P1601717-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00153

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.1**	0.75	0.21	**1.2**	0.44	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.75	0.26	**0.40**	0.15	0.052	
74-87-3	Chloromethane	**0.64**	0.30	0.21	**0.31**	0.15	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	0.29	ND	0.11	0.041	
75-01-4	Vinyl Chloride	ND	0.15	0.14	ND	0.059	0.056	
106-99-0	1,3-Butadiene	ND	0.30	0.21	ND	0.14	0.095	
74-83-9	Bromomethane	ND	0.30	0.14	ND	0.077	0.036	
75-00-3	Chloroethane	ND	0.30	0.13	ND	0.11	0.049	
64-17-5	Ethanol	**47**	7.5	1.2	**25**	4.0	0.64	
75-05-8	Acetonitrile	**0.41**	0.75	0.27	**0.24**	0.45	0.16	**J**
107-02-8	Acrolein	**1.0**	3.0	0.26	**0.45**	1.3	0.11	**J**
67-64-1	Acetone	**15**	7.5	1.2	**6.4**	3.2	0.49	
75-69-4	Trichlorofluoromethane	**1.0**	0.15	0.086	**0.18**	0.027	0.015	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.4**	7.5	0.63	**1.4**	3.1	0.26	**J**
107-13-1	Acrylonitrile	ND	0.75	0.26	ND	0.35	0.12	
75-35-4	1,1-Dichloroethene	ND	0.15	0.14	ND	0.038	0.035	
75-09-2	Methylene Chloride	**60**	0.75	0.26	**17**	0.22	0.073	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.11	ND	0.048	0.036	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.15	0.12	**0.062**	0.020	0.016	
75-15-0	Carbon Disulfide	**0.37**	7.5	0.23	**0.12**	2.4	0.072	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.14	ND	0.038	0.034	
75-34-3	1,1-Dichloroethane	ND	0.15	0.12	ND	0.037	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.14	ND	0.042	0.039	
108-05-4	Vinyl Acetate	ND	7.5	0.98	ND	2.1	0.28	
78-93-3	2-Butanone (MEK)	**1.3**	7.5	0.32	**0.44**	2.5	0.11	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00153

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.14	ND	0.038	0.035	
141-78-6	Ethyl Acetate	**1.3**	1.5	0.53	**0.35**	0.42	0.15	**J**
110-54-3	n-Hexane	**0.44**	0.75	0.23	**0.12**	0.21	0.064	**J**
67-66-3	Chloroform	**0.19**	0.15	0.13	**0.039**	0.031	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	0.30	ND	0.25	0.10	
107-06-2	1,2-Dichloroethane	ND	0.15	0.093	ND	0.037	0.023	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.11	ND	0.028	0.020	
71-43-2	Benzene	**0.77**	0.15	0.12	**0.24**	0.047	0.037	
56-23-5	Carbon Tetrachloride	**0.40**	0.15	0.13	**0.064**	0.024	0.021	
110-82-7	Cyclohexane	ND	1.5	0.44	ND	0.44	0.13	
78-87-5	1,2-Dichloropropane	ND	0.15	0.12	ND	0.032	0.027	
75-27-4	Bromodichloromethane	ND	0.15	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	ND	0.15	0.13	ND	0.028	0.025	
123-91-1	1,4-Dioxane	ND	0.75	0.24	ND	0.21	0.067	
80-62-6	Methyl Methacrylate	ND	1.5	0.47	ND	0.37	0.11	
142-82-5	n-Heptane	**0.29**	0.75	0.26	**0.072**	0.18	0.062	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.21	ND	0.17	0.046	
108-10-1	4-Methyl-2-pentanone	**0.36**	0.75	0.24	**0.089**	0.18	0.059	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	0.24	ND	0.17	0.053	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.12	ND	0.028	0.022	
108-88-3	Toluene	**2.5**	0.75	0.26	**0.65**	0.20	0.068	
591-78-6	2-Hexanone	ND	0.75	0.24	ND	0.18	0.059	
124-48-1	Dibromochloromethane	ND	0.15	0.13	ND	0.018	0.015	
106-93-4	1,2-Dibromoethane	ND	0.15	0.13	ND	0.020	0.017	
123-86-4	n-Butyl Acetate	**1.0**	0.75	0.24	**0.21**	0.16	0.051	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P1601717-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00153

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.75	0.27	ND	0.16	0.058	
127-18-4	Tetrachloroethene	ND	0.15	0.11	ND	0.022	0.016	
108-90-7	Chlorobenzene	ND	0.15	0.12	ND	0.033	0.027	
100-41-4	Ethylbenzene	**0.40**	0.75	0.24	**0.092**	0.17	0.055	**J**
179601-23-1	m,p-Xylenes	**1.1**	0.75	0.44	**0.25**	0.17	0.10	
75-25-2	Bromoform	ND	0.75	0.23	ND	0.073	0.022	
100-42-5	Styrene	**0.36**	0.75	0.23	**0.085**	0.18	0.053	**J**
95-47-6	o-Xylene	**0.39**	0.75	0.23	**0.090**	0.17	0.052	**J**
111-84-2	n-Nonane	**0.26**	0.75	0.23	**0.050**	0.14	0.043	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.13	ND	0.022	0.018	
98-82-8	Cumene	ND	0.75	0.23	ND	0.15	0.046	
80-56-8	alpha-Pinene	**1.8**	0.75	0.21	**0.32**	0.13	0.038	
103-65-1	n-Propylbenzene	ND	0.75	0.24	ND	0.15	0.049	
622-96-8	4-Ethyltoluene	ND	0.75	0.24	ND	0.15	0.049	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	0.24	ND	0.15	0.049	
95-63-6	1,2,4-Trimethylbenzene	**0.29**	0.75	0.23	**0.059**	0.15	0.046	**J**
100-44-7	Benzyl Chloride	ND	0.75	0.17	ND	0.14	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.11	ND	0.025	0.018	
106-46-7	1,4-Dichlorobenzene	**0.98**	0.15	0.11	**0.16**	0.025	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.14	ND	0.025	0.023	
5989-27-5	d-Limonene	**1.7**	0.75	0.21	**0.30**	0.13	0.038	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	0.15	ND	0.078	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	0.24	ND	0.10	0.032	
91-20-3	Naphthalene	ND	0.75	0.27	ND	0.14	0.052	
87-68-3	Hexachlorobutadiene	ND	0.75	0.21	ND	0.070	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160404-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P160404-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P160404-MB

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	NA
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	NA
Analyst:	Evelyn Alvarez	Date Analyzed:	4/4/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160405-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601717

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 3/31/16
Analyst: Evelyn Alvarez Date(s) Received: 4/2/16
Sample Type: Canister(s) Date(s) Analyzed: 4/4 - 4/5/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160404-MB	**96**	**101**	**100**	70-130	
P160405-MB	**98**	**100**	**97**	70-130	
P160404-LCS	**94**	**98**	**102**	70-130	
P160405-LCS	**97**	**98**	**100**	70-130	
P1601717-001	**97**	**99**	**101**	70-130	
P1601717-002	**97**	**99**	**99**	70-130	
P1601717-003	**97**	**99**	**97**	70-130	
P1601717-004	**98**	**99**	**98**	70-130	
P1601717-005	**98**	**99**	**99**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**170**	**87**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**152**	**81**	65-117	
74-87-3	Chloromethane	200	**190**	**95**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**164**	**80**	65-122	
75-01-4	Vinyl Chloride	200	**177**	**89**	65-128	
106-99-0	1,3-Butadiene	206	**200**	**97**	62-143	
74-83-9	Bromomethane	202	**180**	**89**	65-130	
75-00-3	Chloroethane	200	**188**	**94**	69-126	
64-17-5	Ethanol	998	**916**	**92**	57-126	
75-05-8	Acetonitrile	212	**190**	**90**	51-134	
107-02-8	Acrolein	214	**205**	**96**	55-146	
67-64-1	Acetone	1,080	**1060**	**98**	57-120	
75-69-4	Trichlorofluoromethane	216	**161**	**75**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**409**	**98**	59-129	
107-13-1	Acrylonitrile	212	**220**	**104**	64-136	
75-35-4	1,1-Dichloroethene	216	**204**	**94**	72-123	
75-09-2	Methylene Chloride	222	**190**	**86**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**212**	**97**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**198**	**90**	68-118	
75-15-0	Carbon Disulfide	210	**157**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**187**	**87**	55-128	
108-05-4	Vinyl Acetate	1,040	**1100**	**106**	66-140	
78-93-3	2-Butanone (MEK)	220	**231**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717

ALS Sample ID: P160404-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/4/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**456**	**107**	64-132	
110-54-3	n-Hexane	212	**194**	**92**	58-126	
67-66-3	Chloroform	224	**196**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**200**	**91**	64-123	
107-06-2	1,2-Dichloroethane	214	**184**	**86**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**179**	**85**	68-120	
71-43-2	Benzene	226	**198**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**189**	**82**	65-137	
110-82-7	Cyclohexane	424	**399**	**94**	68-122	
78-87-5	1,2-Dichloropropane	216	**208**	**96**	67-122	
75-27-4	Bromodichloromethane	218	**199**	**91**	71-124	
79-01-6	Trichloroethene	216	**184**	**85**	71-121	
123-91-1	1,4-Dioxane	210	**227**	**108**	67-122	
80-62-6	Methyl Methacrylate	422	**457**	**108**	76-130	
142-82-5	n-Heptane	216	**204**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**208**	**100**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**244**	**111**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**216**	**103**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**206**	**95**	73-121	
108-88-3	Toluene	218	**193**	**89**	67-117	
591-78-6	2-Hexanone	220	**231**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**210**	**95**	73-132	
106-93-4	1,2-Dibromoethane	218	**215**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160404-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/4/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**202**	**96**	67-124	
127-18-4	Tetrachloroethene	202	**191**	**95**	65-126	
108-90-7	Chlorobenzene	220	**199**	**90**	68-120	
100-41-4	Ethylbenzene	218	**200**	**92**	69-123	
179601-23-1	m,p-Xylenes	428	**399**	**93**	67-125	
75-25-2	Bromoform	228	**211**	**93**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**201**	**99**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**208**	**99**	72-128	
98-82-8	Cumene	208	**190**	**91**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**210**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**194**	**91**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**202**	**93**	62-134	
100-44-7	Benzyl Chloride	220	**207**	**94**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**210**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**202**	**92**	62-134	
5989-27-5	d-Limonene	210	**213**	**101**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**191**	**88**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**188**	**82**	60-145	
91-20-3	Naphthalene	218	**172**	**79**	56-158	
87-68-3	Hexachlorobutadiene	230	**188**	**82**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**187**	**95**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**159**	**85**	65-117	
74-87-3	Chloromethane	200	**209**	**105**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**168**	**82**	65-122	
75-01-4	Vinyl Chloride	200	**190**	**95**	65-128	
106-99-0	1,3-Butadiene	206	**215**	**104**	62-143	
74-83-9	Bromomethane	202	**186**	**92**	65-130	
75-00-3	Chloroethane	200	**193**	**97**	69-126	
64-17-5	Ethanol	998	**1010**	**101**	57-126	
75-05-8	Acetonitrile	212	**209**	**99**	51-134	
107-02-8	Acrolein	214	**219**	**102**	55-146	
67-64-1	Acetone	1,080	**1130**	**105**	57-120	
75-69-4	Trichlorofluoromethane	216	**166**	**77**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**444**	**106**	59-129	
107-13-1	Acrylonitrile	212	**237**	**112**	64-136	
75-35-4	1,1-Dichloroethene	216	**211**	**98**	72-123	
75-09-2	Methylene Chloride	222	**196**	**88**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**233**	**107**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**200**	**91**	68-118	
75-15-0	Carbon Disulfide	210	**165**	**79**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**227**	**108**	69-129	
75-34-3	1,1-Dichloroethane	212	**204**	**96**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**196**	**91**	55-128	
108-05-4	Vinyl Acetate	1,040	**1140**	**110**	66-140	
78-93-3	2-Butanone (MEK)	220	**243**	**110**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**227**	**104**	65-125	
141-78-6	Ethyl Acetate	428	**490**	**114**	64-132	
110-54-3	n-Hexane	212	**210**	**99**	58-126	
67-66-3	Chloroform	224	**204**	**91**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**211**	**96**	64-123	
107-06-2	1,2-Dichloroethane	214	**193**	**90**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**181**	**86**	68-120	
71-43-2	Benzene	226	**204**	**90**	61-110	
56-23-5	Carbon Tetrachloride	230	**190**	**83**	65-137	
110-82-7	Cyclohexane	424	**410**	**97**	68-122	
78-87-5	1,2-Dichloropropane	216	**218**	**101**	67-122	
75-27-4	Bromodichloromethane	218	**204**	**94**	71-124	
79-01-6	Trichloroethene	216	**185**	**86**	71-121	
123-91-1	1,4-Dioxane	210	**230**	**110**	67-122	
80-62-6	Methyl Methacrylate	422	**463**	**110**	76-130	
142-82-5	n-Heptane	216	**212**	**98**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**214**	**103**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**255**	**116**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**223**	**106**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**208**	**96**	73-121	
108-88-3	Toluene	218	**194**	**89**	67-117	
591-78-6	2-Hexanone	220	**243**	**110**	59-128	
124-48-1	Dibromochloromethane	220	**208**	**95**	73-132	
106-93-4	1,2-Dibromoethane	218	**213**	**98**	73-128	
123-86-4	n-Butyl Acetate	226	**261**	**115**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601717
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**209**	**100**	67-124	
127-18-4	Tetrachloroethene	202	**188**	**93**	65-126	
108-90-7	Chlorobenzene	220	**198**	**90**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**402**	**94**	67-125	
75-25-2	Bromoform	228	**206**	**90**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**197**	**94**	67-124	
111-84-2	n-Nonane	204	**211**	**103**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**211**	**100**	72-128	
98-82-8	Cumene	208	**191**	**92**	67-124	
80-56-8	alpha-Pinene	212	**205**	**97**	67-129	
103-65-1	n-Propylbenzene	204	**195**	**96**	67-125	
622-96-8	4-Ethyltoluene	214	**210**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**196**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**205**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**210**	**95**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**210**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**202**	**92**	62-134	
5989-27-5	d-Limonene	210	**224**	**107**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**191**	**88**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**189**	**82**	60-145	
91-20-3	Naphthalene	218	**173**	**79**	56-158	
87-68-3	Hexachlorobutadiene	230	**188**	**82**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 7, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 2, 2016. For your reference, these analyses have been assigned our service request number P1601718.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601718
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 2, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

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The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601718
Project ID: Aliso Canyon / 603287048

Date Received: 4/2/2016
Time Received: 08:30

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601718-001	Air	3/31/2016	08:01	CC00139	-0.36	3.65	X
	P1601718-002	Air	3/31/2016	08:12	CC00145	-5.73	3.90	X
	P1601718-003	Air	3/31/2016	09:54	CC00148	-0.74	3.68	X
	P1601718-004	Air	3/31/2016	11:18	CC00152	-5.91	3.76	X

P1601718

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	~~-29~~		~~0956~~				
			Avg:						
86-SU-G	Summa	TO-15 0.10 ug/m³ 75	-29	-11	0758	0861	3		Dinning Room. Entech SN 10756
			Avg:						
32-SU.	Summa	TO-15 0.10 ug/m³ 75	-29	-12	0839	0812	1413		DINNING/KITCHEN (ENTECH 1106)
			Avg:						
23-SU.	SUMMA	TO-15 0.10 ug/m³ 75	-29	-02	1023	0954	1411		DINNING (ENTECH 10592)
			Avg:						
14-SU.	SUMMA	TO-15 0.10 ug/m³ 75	-28	-11	1143	1118	1415		DINNING (ENTECH 10699)
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/1/16	Time: 1750	Received by:	Date: 4/1/16	Time: ~~1755~~
Relinquished by: courier to ALS	Date: 4/2/16	Time: ~~830~~ ~~1454~~	Received by:	Date:	Time:
Relinquished by:	Date: 4/2/16	Time: 0830	Received by:	Date: 4/2/16	Time: 0830

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601718

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/2/16 Date opened: 4/2/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601718-001.01	Canister					
P1601718-002.01	Canister					
P1601718-003.01	Canister					
P1601718-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers):

Samples were picked up at 0830 and received in the lab at 0900.

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00139

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.36 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**6.1**	0.64	0.18	**3.5**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.64	0.22	**0.43**	0.13	0.044	
74-87-3	Chloromethane	**0.61**	0.26	0.18	**0.30**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	0.24	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.081	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.097	0.042	
64-17-5	Ethanol	**7.8**	6.4	1.0	**4.1**	3.4	0.54	
75-05-8	Acetonitrile	**0.47**	0.64	0.23	**0.28**	0.38	0.14	**J**
107-02-8	Acrolein	**0.67**	2.6	0.22	**0.29**	1.1	0.095	**J**
67-64-1	Acetone	**21**	6.4	0.99	**8.8**	2.7	0.42	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.073	**0.19**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**12**	6.4	0.54	**4.7**	2.6	0.22	
107-13-1	Acrylonitrile	ND	0.64	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**2.3**	0.64	0.22	**0.67**	0.18	0.063	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.097	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.13	0.10	**0.066**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.4	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	ND	6.4	0.83	ND	1.8	0.24	
78-93-3	2-Butanone (MEK)	**0.60**	6.4	0.27	**0.20**	2.2	0.091	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718

ALS Sample ID: P1601718-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00139

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.36 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
141-78-6	Ethyl Acetate	**0.49**	1.3	0.45	**0.14**	0.36	0.12	**J**
110-54-3	n-Hexane	**0.19**	0.64	0.19	**0.055**	0.18	0.054	**J**
67-66-3	Chloroform	**0.34**	0.13	0.11	**0.071**	0.026	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.64	0.26	ND	0.22	0.087	
107-06-2	1,2-Dichloroethane	ND	0.13	0.079	ND	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.023	0.017	
71-43-2	Benzene	**0.53**	0.13	0.10	**0.16**	0.040	0.032	
56-23-5	Carbon Tetrachloride	**0.54**	0.13	0.11	**0.086**	0.020	0.018	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.087	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.64	0.20	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.31	0.097	
142-82-5	n-Heptane	**0.28**	0.64	0.22	**0.068**	0.16	0.053	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	ND	0.64	0.20	ND	0.16	0.050	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	0.20	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.019	
108-88-3	Toluene	**0.41**	0.64	0.22	**0.11**	0.17	0.058	**J**
591-78-6	2-Hexanone	ND	0.64	0.20	ND	0.16	0.050	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**0.23**	0.64	0.20	**0.048**	0.13	0.043	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00139

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.36 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	0.23	ND	0.14	0.049	
127-18-4	Tetrachloroethene	ND	0.13	0.092	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	**0.25**	0.64	0.20	**0.059**	0.15	0.047	**J**
179601-23-1	m,p-Xylenes	**1.4**	0.64	0.37	**0.32**	0.15	0.085	
75-25-2	Bromoform	ND	0.64	0.19	ND	0.062	0.019	
100-42-5	Styrene	ND	0.64	0.19	ND	0.15	0.045	
95-47-6	o-Xylene	**0.74**	0.64	0.19	**0.17**	0.15	0.044	
111-84-2	n-Nonane	**0.28**	0.64	0.19	**0.052**	0.12	0.037	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.64	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	ND	0.64	0.18	ND	0.11	0.032	
103-65-1	n-Propylbenzene	**0.51**	0.64	0.20	**0.10**	0.13	0.042	**J**
622-96-8	4-Ethyltoluene	**0.89**	0.64	0.20	**0.18**	0.13	0.042	
108-67-8	1,3,5-Trimethylbenzene	**0.61**	0.64	0.20	**0.13**	0.13	0.042	**J**
95-63-6	1,2,4-Trimethylbenzene	**4.0**	0.64	0.19	**0.82**	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.64	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.097	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**0.21**	0.64	0.18	**0.037**	0.11	0.032	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	0.13	ND	0.066	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.20	ND	0.086	0.028	
91-20-3	Naphthalene	**0.34**	0.64	0.23	**0.066**	0.12	0.044	**J**
87-68-3	Hexachlorobutadiene	ND	0.64	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00145

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.73 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.2**	1.0	0.29	**2.5**	0.60	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	0.35	**0.42**	0.21	0.071	
74-87-3	Chloromethane	**0.60**	0.41	0.29	**0.29**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.081	0.077	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.050	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**130**	10	1.7	**70**	5.5	0.88	
75-05-8	Acetonitrile	**7.0**	1.0	0.37	**4.2**	0.62	0.22	
107-02-8	Acrolein	**3.3**	4.1	0.35	**1.4**	1.8	0.15	**J**
67-64-1	Acetone	**42**	10	1.6	**18**	4.4	0.67	
75-69-4	Trichlorofluoromethane	**1.1**	0.21	0.12	**0.19**	0.037	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.7**	10	0.87	**2.7**	4.2	0.35	**J**
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.48	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.049	
75-09-2	Methylene Chloride	**82**	1.0	0.35	**24**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.21	0.17	**0.063**	0.027	0.022	
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.3	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**12**	10	1.3	**3.4**	2.9	0.38	
78-93-3	2-Butanone (MEK)	**1.7**	10	0.43	**0.59**	3.5	0.15	**J**

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00145

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.73 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	**22**	2.1	0.72	**6.0**	0.57	0.20	
110-54-3	n-Hexane	**0.78**	1.0	0.31	**0.22**	0.29	0.088	**J**
67-66-3	Chloroform	**0.55**	0.21	0.18	**0.11**	0.042	0.038	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	**2.5**	0.21	0.13	**0.62**	0.051	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**0.70**	0.21	0.16	**0.22**	0.065	0.051	
56-23-5	Carbon Tetrachloride	**0.55**	0.21	0.18	**0.087**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.60	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.045	0.037	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.18	ND	0.039	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.29	0.092	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.51	0.16	
142-82-5	n-Heptane	**1.2**	1.0	0.35	**0.30**	0.25	0.086	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.064	
108-10-1	4-Methyl-2-pentanone	**0.37**	1.0	0.33	**0.091**	0.25	0.081	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.073	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.038	0.030	
108-88-3	Toluene	**1.6**	1.0	0.35	**0.43**	0.27	0.093	
591-78-6	2-Hexanone	**0.34**	1.0	0.33	**0.083**	0.25	0.081	**J**
124-48-1	Dibromochloromethane	**0.35**	0.21	0.18	**0.041**	0.024	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**7.3**	1.0	0.33	**1.5**	0.22	0.070	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00145

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.73 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**2.7**	1.0	0.37	**0.58**	0.22	0.080	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	ND	1.0	0.33	ND	0.24	0.076	
179601-23-1	m,p-Xylenes	**0.67**	1.0	0.60	**0.15**	0.24	0.14	**J**
75-25-2	Bromoform	**0.34**	1.0	0.31	**0.032**	0.10	0.030	**J**
100-42-5	Styrene	ND	1.0	0.31	ND	0.24	0.073	
95-47-6	o-Xylene	ND	1.0	0.31	ND	0.24	0.072	
111-84-2	n-Nonane	**0.93**	1.0	0.31	**0.18**	0.20	0.059	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
80-56-8	alpha-Pinene	**0.55**	1.0	0.29	**0.099**	0.19	0.052	**J**
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.31	ND	0.21	0.063	
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**5.1**	1.0	0.29	**0.91**	0.19	0.052	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.045	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.071	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.097	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00148

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**6.4**	0.66	0.18	**3.7**	0.38	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.66	0.22	**0.45**	0.13	0.045	
74-87-3	Chloromethane	**0.64**	0.26	0.18	**0.31**	0.13	0.090	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	0.25	ND	0.094	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.13	ND	0.052	0.049	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.084	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.068	0.032	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.10	0.044	
64-17-5	Ethanol	**350**	6.6	1.1	**180**	3.5	0.56	
75-05-8	Acetonitrile	**0.68**	0.66	0.24	**0.41**	0.39	0.14	
107-02-8	Acrolein	**1.7**	2.6	0.22	**0.74**	1.2	0.098	**J**
67-64-1	Acetone	**24**	6.6	1.0	**10**	2.8	0.43	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.075	**0.20**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**11**	6.6	0.55	**4.4**	2.7	0.23	
107-13-1	Acrylonitrile	**0.35**	0.66	0.22	**0.16**	0.30	0.10	**J**
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
75-09-2	Methylene Chloride	**130**	0.66	0.22	**38**	0.19	0.065	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.042	0.032	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.13	0.11	**0.065**	0.017	0.014	
75-15-0	Carbon Disulfide	**0.20**	6.6	0.20	**0.064**	2.1	0.064	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.033	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.037	0.034	
108-05-4	Vinyl Acetate	**2.8**	6.6	0.86	**0.80**	1.9	0.24	**J**
78-93-3	2-Butanone (MEK)	**1.8**	6.6	0.28	**0.61**	2.2	0.094	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
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Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718

ALS Sample ID: P1601718-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00148

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
141-78-6	Ethyl Acetate	**10**	1.3	0.46	**2.9**	0.37	0.13	
110-54-3	n-Hexane	**0.46**	0.66	0.20	**0.13**	0.19	0.056	**J**
67-66-3	Chloroform	**0.30**	0.13	0.12	**0.061**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.66	0.26	ND	0.22	0.090	
107-06-2	1,2-Dichloroethane	**9.9**	0.13	0.082	**2.5**	0.033	0.020	
71-55-6	1,1,1-Trichloroethane	**0.62**	0.13	0.098	**0.11**	0.024	0.018	
71-43-2	Benzene	**0.65**	0.13	0.10	**0.20**	0.041	0.033	
56-23-5	Carbon Tetrachloride	**0.49**	0.13	0.11	**0.078**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.38	ND	0.38	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	**0.14**	0.13	0.090	**0.021**	0.020	0.013	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.025	0.022	
123-91-1	1,4-Dioxane	ND	0.66	0.21	ND	0.18	0.059	
80-62-6	Methyl Methacrylate	**1.5**	1.3	0.41	**0.36**	0.32	0.10	
142-82-5	n-Heptane	**0.59**	0.66	0.22	**0.14**	0.16	0.055	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	0.18	ND	0.15	0.041	
108-10-1	4-Methyl-2-pentanone	**0.51**	0.66	0.21	**0.12**	0.16	0.052	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	0.21	ND	0.15	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.11	ND	0.024	0.019	
108-88-3	Toluene	**1.5**	0.66	0.22	**0.39**	0.18	0.060	
591-78-6	2-Hexanone	ND	0.66	0.21	ND	0.16	0.052	
124-48-1	Dibromochloromethane	**0.41**	0.13	0.11	**0.048**	0.016	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.015	
123-86-4	n-Butyl Acetate	**0.74**	0.66	0.21	**0.15**	0.14	0.044	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00148

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.5**	0.66	0.24	**0.32**	0.14	0.051	
127-18-4	Tetrachloroethene	**0.43**	0.13	0.095	**0.063**	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.029	0.024	
100-41-4	Ethylbenzene	**0.48**	0.66	0.21	**0.11**	0.15	0.049	**J**
179601-23-1	m,p-Xylenes	**1.2**	0.66	0.38	**0.29**	0.15	0.088	
75-25-2	Bromoform	**0.39**	0.66	0.20	**0.038**	0.064	0.019	**J**
100-42-5	Styrene	**0.83**	0.66	0.20	**0.19**	0.16	0.047	
95-47-6	o-Xylene	**0.40**	0.66	0.20	**0.093**	0.15	0.046	**J**
111-84-2	n-Nonane	**1.0**	0.66	0.20	**0.19**	0.13	0.038	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.66	0.20	ND	0.13	0.040	
80-56-8	alpha-Pinene	**2.3**	0.66	0.18	**0.42**	0.12	0.033	
103-65-1	n-Propylbenzene	ND	0.66	0.21	ND	0.13	0.043	
622-96-8	4-Ethyltoluene	ND	0.66	0.21	ND	0.13	0.043	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	0.21	ND	0.13	0.043	
95-63-6	1,2,4-Trimethylbenzene	**0.23**	0.66	0.20	**0.047**	0.13	0.040	**J**
100-44-7	Benzyl Chloride	ND	0.66	0.15	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.098	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.10	ND	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.020	
5989-27-5	d-Limonene	**19**	0.66	0.18	**3.4**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.66	0.13	ND	0.068	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.66	0.21	ND	0.089	0.028	
91-20-3	Naphthalene	**0.38**	0.66	0.24	**0.072**	0.13	0.045	**J**
87-68-3	Hexachlorobutadiene	ND	0.66	0.18	ND	0.062	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P1601718-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00152

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.91 Final Pressure (psig): 3.76

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**17**	1.1	0.29	**10**	0.61	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.1	0.36	**0.43**	0.21	0.072	
74-87-3	Chloromethane	**0.58**	0.42	0.29	**0.28**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.40	ND	0.15	0.057	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.082	0.078	
106-99-0	1,3-Butadiene	ND	0.42	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.42	0.20	ND	0.11	0.050	
75-00-3	Chloroethane	ND	0.42	0.18	ND	0.16	0.069	
64-17-5	Ethanol	**190**	11	1.7	**100**	5.6	0.89	
75-05-8	Acetonitrile	**0.53**	1.1	0.38	**0.31**	0.63	0.23	**J**
107-02-8	Acrolein	**1.1**	4.2	0.36	**0.46**	1.8	0.16	**J**
67-64-1	Acetone	**26**	11	1.6	**11**	4.4	0.68	
75-69-4	Trichlorofluoromethane	**1.1**	0.21	0.12	**0.20**	0.037	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**31**	11	0.88	**12**	4.3	0.36	
107-13-1	Acrylonitrile	ND	1.1	0.36	ND	0.48	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.20	ND	0.053	0.049	
75-09-2	Methylene Chloride	**41**	1.1	0.36	**12**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.067	0.051	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.21	0.17	**0.064**	0.027	0.022	
75-15-0	Carbon Disulfide	ND	11	0.32	ND	3.4	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.048	
75-34-3	1,1-Dichloroethane	ND	0.21	0.17	ND	0.052	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.20	ND	0.058	0.054	
108-05-4	Vinyl Acetate	**2.7**	11	1.4	**0.76**	3.0	0.39	**J**
78-93-3	2-Butanone (MEK)	**1.4**	11	0.44	**0.48**	3.6	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718

ALS Sample ID: P1601718-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00152

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.91 Final Pressure (psig): 3.76

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.049	
141-78-6	Ethyl Acetate	**35**	2.1	0.74	**9.6**	0.58	0.20	
110-54-3	n-Hexane	**0.42**	1.1	0.32	**0.12**	0.30	0.089	**J**
67-66-3	Chloroform	**0.29**	0.21	0.19	**0.060**	0.043	0.038	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.42	ND	0.36	0.14	
107-06-2	1,2-Dichloroethane	**1.1**	0.21	0.13	**0.27**	0.052	0.032	
71-55-6	1,1,1-Trichloroethane	**0.43**	0.21	0.16	**0.078**	0.039	0.028	
71-43-2	Benzene	**0.47**	0.21	0.17	**0.15**	0.066	0.052	
56-23-5	Carbon Tetrachloride	**0.55**	0.21	0.18	**0.087**	0.033	0.029	
110-82-7	Cyclohexane	ND	2.1	0.61	ND	0.61	0.18	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.045	0.038	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.19	ND	0.039	0.035	
123-91-1	1,4-Dioxane	ND	1.1	0.34	ND	0.29	0.093	
80-62-6	Methyl Methacrylate	ND	2.1	0.65	ND	0.51	0.16	
142-82-5	n-Heptane	**0.39**	1.1	0.36	**0.096**	0.26	0.087	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.29	ND	0.23	0.065	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.34	ND	0.26	0.082	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.34	ND	0.23	0.074	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.039	0.031	
108-88-3	Toluene	**2.5**	1.1	0.36	**0.67**	0.28	0.095	
591-78-6	2-Hexanone	ND	1.1	0.34	ND	0.26	0.082	
124-48-1	Dibromochloromethane	ND	0.21	0.18	ND	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**1.8**	1.1	0.34	**0.38**	0.22	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718

ALS Sample ID: P1601718-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00152

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.91 Final Pressure (psig): 3.76

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.38	ND	0.22	0.081	
127-18-4	Tetrachloroethene	**3.7**	0.21	0.15	**0.55**	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.046	0.038	
100-41-4	Ethylbenzene	**0.35**	1.1	0.34	**0.082**	0.24	0.077	**J**
179601-23-1	m,p-Xylenes	**1.0**	1.1	0.61	**0.24**	0.24	0.14	**J**
75-25-2	Bromoform	ND	1.1	0.32	ND	0.10	0.030	
100-42-5	Styrene	ND	1.1	0.32	ND	0.25	0.074	
95-47-6	o-Xylene	**0.40**	1.1	0.32	**0.093**	0.24	0.073	**J**
111-84-2	n-Nonane	**0.52**	1.1	0.32	**0.10**	0.20	0.060	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.18	ND	0.031	0.026	
98-82-8	Cumene	ND	1.1	0.32	ND	0.21	0.064	
80-56-8	alpha-Pinene	**0.51**	1.1	0.29	**0.092**	0.19	0.053	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.34	ND	0.21	0.068	
622-96-8	4-Ethyltoluene	ND	1.1	0.34	ND	0.21	0.068	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.34	ND	0.21	0.068	
95-63-6	1,2,4-Trimethylbenzene	**0.50**	1.1	0.32	**0.10**	0.21	0.064	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.23	ND	0.20	0.045	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.20	ND	0.035	0.032	
5989-27-5	d-Limonene	**3.6**	1.1	0.29	**0.65**	0.19	0.053	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.045	
91-20-3	Naphthalene	**0.38**	1.1	0.38	**0.073**	0.20	0.072	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	0.29	ND	0.098	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P160405-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601718

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/31/16
Analyst: Wida Ang Date(s) Received: 4/2/16
Sample Type: Canister(s) Date(s) Analyzed: 4/5/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160405-MB	**102**	**98**	**102**	70-130	
	P160405-LCS	**99**	**93**	**104**	70-130	
	P1601718-001	**102**	**97**	**103**	70-130	
	P1601718-002	**106**	**94**	**102**	70-130	
	P1601718-003	**103**	**96**	**102**	70-130	
	P1601718-004	**103**	**97**	**103**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**182**	**93**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**177**	**94**	65-117	
74-87-3	Chloromethane	200	**225**	**113**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**190**	**93**	65-122	
75-01-4	Vinyl Chloride	200	**218**	**109**	65-128	
106-99-0	1,3-Butadiene	206	**224**	**109**	62-143	
74-83-9	Bromomethane	202	**212**	**105**	65-130	
75-00-3	Chloroethane	200	**204**	**102**	69-126	
64-17-5	Ethanol	998	**982**	**98**	57-126	
75-05-8	Acetonitrile	212	**200**	**94**	51-134	
107-02-8	Acrolein	214	**209**	**98**	55-146	
67-64-1	Acetone	1,080	**949**	**88**	57-120	
75-69-4	Trichlorofluoromethane	216	**178**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**419**	**100**	59-129	
107-13-1	Acrylonitrile	212	**227**	**107**	64-136	
75-35-4	1,1-Dichloroethene	216	**220**	**102**	72-123	
75-09-2	Methylene Chloride	222	**197**	**89**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**247**	**113**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**207**	**94**	68-118	
75-15-0	Carbon Disulfide	210	**167**	**80**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**222**	**106**	69-129	
75-34-3	1,1-Dichloroethane	212	**202**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**206**	**95**	55-128	
108-05-4	Vinyl Acetate	1,040	**1140**	**110**	66-140	
78-93-3	2-Butanone (MEK)	220	**177**	**80**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**223**	**102**	65-125	
141-78-6	Ethyl Acetate	428	**434**	**101**	64-132	
110-54-3	n-Hexane	212	**164**	**77**	58-126	
67-66-3	Chloroform	224	**209**	**93**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**221**	**100**	64-123	
107-06-2	1,2-Dichloroethane	214	**206**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**216**	**103**	68-120	
71-43-2	Benzene	226	**206**	**91**	61-110	
56-23-5	Carbon Tetrachloride	230	**228**	**99**	65-137	
110-82-7	Cyclohexane	424	**405**	**96**	68-122	
78-87-5	1,2-Dichloropropane	216	**213**	**99**	67-122	
75-27-4	Bromodichloromethane	218	**234**	**107**	71-124	
79-01-6	Trichloroethene	216	**203**	**94**	71-121	
123-91-1	1,4-Dioxane	210	**243**	**116**	67-122	
80-62-6	Methyl Methacrylate	422	**427**	**101**	76-130	
142-82-5	n-Heptane	216	**199**	**92**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**223**	**107**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**235**	**107**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**238**	**113**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**225**	**104**	73-121	
108-88-3	Toluene	218	**164**	**75**	67-117	
591-78-6	2-Hexanone	220	**220**	**100**	59-128	
124-48-1	Dibromochloromethane	220	**231**	**105**	73-132	
106-93-4	1,2-Dibromoethane	218	**217**	**100**	73-128	
123-86-4	n-Butyl Acetate	226	**238**	**105**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601718
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**190**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**200**	**91**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**394**	**92**	67-125	
75-25-2	Bromoform	228	**233**	**102**	68-153	
100-42-5	Styrene	222	**228**	**103**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**196**	**96**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**206**	**98**	72-128	
98-82-8	Cumene	208	**192**	**92**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**200**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**198**	**93**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**206**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**257**	**117**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**213**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**210**	**95**	62-134	
5989-27-5	d-Limonene	210	**217**	**103**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**235**	**108**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**221**	**96**	60-145	
91-20-3	Naphthalene	218	**215**	**99**	56-158	
87-68-3	Hexachlorobutadiene	230	**205**	**89**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 7, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 2, 2016. For your reference, these analyses have been assigned our service request number P1601719.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 10:40 am, Apr 07, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601719
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 2, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Three of the four containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

---

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601719
Project ID: Aliso Canyon / 603287048

Date Received: 4/2/2016
Time Received: 11:07

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601719-001	Air	3/31/2016	11:28	CC00144	-5.78	3.90	X
P1601719-002	Air	3/31/2016	15:20	AC02120	-9.34	3.59	X
P1601719-003	Air	3/31/2016	15:40	CC00149	-6.73	3.57	X
P1601719-004	Air	3/31/2016	17:15	CC00146	-5.79	3.72	X

P1601719

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Celso Serna
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
14-SU-EXT.	SUMMA	TO-15 0.10 ug/m³ 75	-29	-12	1156	1128	1,412		REAR PATIO (ENTECH 10145)
			Avg:						
56-SU	SUMMA	TO-15 0.10 ug/m³ 75	~~-29~~		~~1919~~		VOID		~~LIVING RM @ STAIRS (RESTEK N0678)~~
			Avg:						
56-SU-D	SUMMA	TO-15 0.10 ug/m³ 75	-27		1919		VOID		LIVING RM @ STAIRS (RESTEK N0404)
			Avg:						
85-SU	SUMMA	TO-15 0.15 ug/m³ 75	-29	-16	1540	1520	1,420		FAMILY RM (RESTEK N0712)
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:		Date: 4/1/16	Time: 1750	Received by:		Date: 4/1/16	Time: 0750
Relinquished by:	TO FEDEX	Date: 4/2/16	Time: ~~1550~~	Received by:		Date:	Time:
Relinquished by:		Date: 4/2/16	Time: 1830	Received by:		Date: 4/2/16	Time: 0930

P1601719

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/31/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Senoo	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
116-SU	SUMMA	TO-15 0.10 ug/m³ 75	-28	-13	1618	1540	1,402		DINNING RM (ENTECH 10154)
			Avg:						
114-SU	SUMMA	TO-15 0.10 ug/m³ 75	-29	-11	1737	1715	1,418		DINNING RM (ENTECH 10143)
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/1/16	Time: 1750	Received by:	Date: 4/1/16	Time: 1755
Relinquished by: To ~~Fedex~~ Courier	Date: 4/2/16	Time: ~~1330~~ ~~1750~~	Received by:	Date:	Time:
Relinquished by:	Date: 4/2/16	Time: 0830	Received by:	Date: 4/2/16	Time: 0930

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601719

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/2/16 Date opened: 4/2/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601719-001.01	Canister					
P1601719-002.01	6.0 L Ambient Can					
P1601719-003.01	Canister					
P1601719-004.01	Canister					
P1601719-005.01	Canister					

Explain any discrepancies: (include lab sample ID numbers):

Samples were picked up at 0830 and received in the lab at 0900.

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P1601719-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00144

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.78 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.09

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.7**	1.0	0.29	**0.99**	0.61	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.0	0.36	**0.41**	0.21	0.072	
74-87-3	Chloromethane	**0.43**	0.42	0.29	**0.21**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.40	ND	0.15	0.057	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.082	0.078	
106-99-0	1,3-Butadiene	ND	0.42	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.42	0.19	ND	0.11	0.050	
75-00-3	Chloroethane	ND	0.42	0.18	ND	0.16	0.069	
64-17-5	Ethanol	**8.6**	10	1.7	**4.6**	5.5	0.89	**J**
75-05-8	Acetonitrile	**0.39**	1.0	0.38	**0.23**	0.62	0.22	**J**
107-02-8	Acrolein	ND	4.2	0.36	ND	1.8	0.16	
67-64-1	Acetone	**6.9**	10	1.6	**2.9**	4.4	0.68	**J**
75-69-4	Trichlorofluoromethane	**1.1**	0.21	0.12	**0.19**	0.037	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.0**	10	0.88	**0.80**	4.3	0.36	**J**
107-13-1	Acrylonitrile	ND	1.0	0.36	ND	0.48	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.053	0.049	
75-09-2	Methylene Chloride	**3.5**	1.0	0.36	**1.0**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.067	0.051	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.21	0.17	**0.063**	0.027	0.022	
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.4	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.048	
75-34-3	1,1-Dichloroethane	ND	0.21	0.17	ND	0.052	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.058	0.054	
108-05-4	Vinyl Acetate	**1.9**	10	1.4	**0.54**	3.0	0.39	**J**
78-93-3	2-Butanone (MEK)	**0.76**	10	0.44	**0.26**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00144

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.78 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.09

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.049	
141-78-6	Ethyl Acetate	**8.7**	2.1	0.73	**2.4**	0.58	0.20	
110-54-3	n-Hexane	**0.34**	1.0	0.31	**0.096**	0.30	0.089	**J**
67-66-3	Chloroform	**0.23**	0.21	0.19	**0.047**	0.043	0.038	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.42	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	ND	0.21	0.13	ND	0.052	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**0.57**	0.21	0.17	**0.18**	0.065	0.052	
56-23-5	Carbon Tetrachloride	**0.44**	0.21	0.18	**0.070**	0.033	0.029	
110-82-7	Cyclohexane	ND	2.1	0.61	ND	0.61	0.18	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.045	0.038	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.19	ND	0.039	0.035	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.29	0.093	
80-62-6	Methyl Methacrylate	ND	2.1	0.65	ND	0.51	0.16	
142-82-5	n-Heptane	ND	1.0	0.36	ND	0.26	0.087	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.064	
108-10-1	4-Methyl-2-pentanone	**0.67**	1.0	0.33	**0.16**	0.26	0.082	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.074	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.038	0.031	
108-88-3	Toluene	**1.6**	1.0	0.36	**0.42**	0.28	0.094	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.26	0.082	
124-48-1	Dibromochloromethane	ND	0.21	0.18	ND	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**3.3**	1.0	0.33	**0.69**	0.22	0.070	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P1601719-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00144

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.78 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.09

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.38	ND	0.22	0.081	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.038	
100-41-4	Ethylbenzene	**0.39**	1.0	0.33	**0.090**	0.24	0.077	**J**
179601-23-1	m,p-Xylenes	**1.2**	1.0	0.61	**0.29**	0.24	0.14	
75-25-2	Bromoform	ND	1.0	0.31	ND	0.10	0.030	
100-42-5	Styrene	ND	1.0	0.31	ND	0.25	0.074	
95-47-6	o-Xylene	**0.42**	1.0	0.31	**0.097**	0.24	0.072	**J**
111-84-2	n-Nonane	ND	1.0	0.31	ND	0.20	0.060	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.18	ND	0.030	0.026	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.064	
80-56-8	alpha-Pinene	ND	1.0	0.29	ND	0.19	0.053	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.068	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.068	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.068	
95-63-6	1,2,4-Trimethylbenzene	**0.50**	1.0	0.31	**0.10**	0.21	0.064	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.035	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.035	0.032	
5989-27-5	d-Limonene	ND	1.0	0.29	ND	0.19	0.053	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.21	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.045	
91-20-3	Naphthalene	**0.42**	1.0	0.38	**0.079**	0.20	0.072	**J**
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.098	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P1601719-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02120

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -9.34 Final Pressure (psig): 3.59

Canister Dilution Factor: 3.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**14**	1.7	0.48	**8.0**	0.99	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.7	0.58	**0.42**	0.34	0.12	
74-87-3	Chloromethane	**0.52**	0.68	0.48	**0.25**	0.33	0.23	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.65	ND	0.24	0.093	
75-01-4	Vinyl Chloride	ND	0.34	0.32	ND	0.13	0.13	
106-99-0	1,3-Butadiene	ND	0.68	0.48	ND	0.31	0.22	
74-83-9	Bromomethane	ND	0.68	0.32	ND	0.18	0.082	
75-00-3	Chloroethane	ND	0.68	0.30	ND	0.26	0.11	
64-17-5	Ethanol	**190**	17	2.7	**100**	9.1	1.4	
75-05-8	Acetonitrile	ND	1.7	0.61	ND	1.0	0.37	
107-02-8	Acrolein	**2.1**	6.8	0.58	**0.94**	3.0	0.25	**J**
67-64-1	Acetone	**34**	17	2.6	**14**	7.2	1.1	
75-69-4	Trichlorofluoromethane	**1.9**	0.34	0.19	**0.33**	0.061	0.035	
67-63-0	2-Propanol (Isopropyl Alcohol)	**25**	17	1.4	**10**	6.9	0.58	
107-13-1	Acrylonitrile	ND	1.7	0.58	ND	0.79	0.27	
75-35-4	1,1-Dichloroethene	ND	0.34	0.32	ND	0.086	0.080	
75-09-2	Methylene Chloride	**43**	1.7	0.58	**12**	0.49	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.34	0.26	ND	0.11	0.083	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.34	0.27	**0.064**	0.045	0.036	
75-15-0	Carbon Disulfide	ND	17	0.51	ND	5.5	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.34	0.31	ND	0.086	0.078	
75-34-3	1,1-Dichloroethane	ND	0.34	0.27	ND	0.084	0.067	
1634-04-4	Methyl tert-Butyl Ether	ND	0.34	0.32	ND	0.095	0.088	
108-05-4	Vinyl Acetate	**7.5**	17	2.2	**2.1**	4.8	0.63	**J**
78-93-3	2-Butanone (MEK)	**16**	17	0.72	**5.5**	5.8	0.24	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02120

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -9.34 Final Pressure (psig): 3.59

Canister Dilution Factor: 3.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.34	0.31	ND	0.086	0.079	
141-78-6	Ethyl Acetate	**8.3**	3.4	1.2	**2.3**	0.95	0.33	
110-54-3	n-Hexane	ND	1.7	0.51	ND	0.48	0.15	
67-66-3	Chloroform	ND	0.34	0.30	ND	0.070	0.062	
109-99-9	Tetrahydrofuran (THF)	ND	1.7	0.68	ND	0.58	0.23	
107-06-2	1,2-Dichloroethane	**0.35**	0.34	0.21	**0.086**	0.084	0.052	
71-55-6	1,1,1-Trichloroethane	ND	0.34	0.25	ND	0.063	0.046	
71-43-2	Benzene	**0.53**	0.34	0.27	**0.16**	0.11	0.084	
56-23-5	Carbon Tetrachloride	**0.48**	0.34	0.29	**0.076**	0.054	0.047	
110-82-7	Cyclohexane	ND	3.4	0.99	ND	0.99	0.29	
78-87-5	1,2-Dichloropropane	ND	0.34	0.28	ND	0.074	0.061	
75-27-4	Bromodichloromethane	ND	0.34	0.23	ND	0.051	0.035	
79-01-6	Trichloroethene	ND	0.34	0.30	ND	0.063	0.056	
123-91-1	1,4-Dioxane	ND	1.7	0.55	ND	0.47	0.15	
80-62-6	Methyl Methacrylate	ND	3.4	1.1	ND	0.83	0.26	
142-82-5	n-Heptane	ND	1.7	0.58	ND	0.42	0.14	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.48	ND	0.38	0.11	
108-10-1	4-Methyl-2-pentanone	**0.59**	1.7	0.55	**0.14**	0.42	0.13	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.55	ND	0.38	0.12	
79-00-5	1,1,2-Trichloroethane	ND	0.34	0.27	ND	0.063	0.050	
108-88-3	Toluene	**2.0**	1.7	0.58	**0.54**	0.45	0.15	
591-78-6	2-Hexanone	ND	1.7	0.55	ND	0.42	0.13	
124-48-1	Dibromochloromethane	**0.33**	0.34	0.29	**0.038**	0.040	0.034	**J**
106-93-4	1,2-Dibromoethane	ND	0.34	0.29	ND	0.044	0.038	
123-86-4	n-Butyl Acetate	**0.98**	1.7	0.55	**0.21**	0.36	0.11	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P1601719-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02120

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -9.34 Final Pressure (psig): 3.59

Canister Dilution Factor: 3.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.7	0.61	ND	0.37	0.13	
127-18-4	Tetrachloroethene	ND	0.34	0.25	ND	0.050	0.036	
108-90-7	Chlorobenzene	ND	0.34	0.28	ND	0.074	0.061	
100-41-4	Ethylbenzene	**0.58**	1.7	0.55	**0.13**	0.39	0.13	**J**
179601-23-1	m,p-Xylenes	**1.6**	1.7	0.99	**0.36**	0.39	0.23	**J**
75-25-2	Bromoform	ND	1.7	0.51	ND	0.16	0.049	
100-42-5	Styrene	ND	1.7	0.51	ND	0.40	0.12	
95-47-6	o-Xylene	**0.66**	1.7	0.51	**0.15**	0.39	0.12	**J**
111-84-2	n-Nonane	ND	1.7	0.51	ND	0.33	0.098	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.34	0.29	ND	0.050	0.042	
98-82-8	Cumene	ND	1.7	0.51	ND	0.35	0.10	
80-56-8	alpha-Pinene	**1.6**	1.7	0.48	**0.29**	0.31	0.086	**J**
103-65-1	n-Propylbenzene	ND	1.7	0.55	ND	0.35	0.11	
622-96-8	4-Ethyltoluene	ND	1.7	0.55	ND	0.35	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	1.7	0.55	ND	0.35	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	1.7	0.51	ND	0.35	0.10	
100-44-7	Benzyl Chloride	ND	1.7	0.38	ND	0.33	0.072	
541-73-1	1,3-Dichlorobenzene	ND	0.34	0.25	ND	0.057	0.042	
106-46-7	1,4-Dichlorobenzene	**1.2**	0.34	0.26	**0.20**	0.057	0.043	
95-50-1	1,2-Dichlorobenzene	ND	0.34	0.32	ND	0.057	0.053	
5989-27-5	d-Limonene	**21**	1.7	0.48	**3.8**	0.31	0.086	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.34	ND	0.18	0.035	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.55	ND	0.23	0.074	
91-20-3	Naphthalene	ND	1.7	0.61	ND	0.33	0.12	
87-68-3	Hexachlorobutadiene	ND	1.7	0.48	ND	0.16	0.045	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P1601719-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00149

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.6**	1.1	0.32	**0.93**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.1	0.39	**0.44**	0.23	0.079	
74-87-3	Chloromethane	**0.52**	0.46	0.32	**0.25**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.44	ND	0.16	0.062	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.090	0.085	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.14	
74-83-9	Bromomethane	ND	0.46	0.21	ND	0.12	0.055	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.17	0.076	
64-17-5	Ethanol	**140**	11	1.8	**74**	6.1	0.97	
75-05-8	Acetonitrile	**2.9**	1.1	0.41	**1.7**	0.68	0.25	
107-02-8	Acrolein	**1.7**	4.6	0.39	**0.73**	2.0	0.17	**J**
67-64-1	Acetone	**25**	11	1.8	**11**	4.8	0.74	
75-69-4	Trichlorofluoromethane	**1.2**	0.23	0.13	**0.22**	0.041	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.5**	11	0.96	**1.4**	4.7	0.39	**J**
107-13-1	Acrylonitrile	ND	1.1	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
75-09-2	Methylene Chloride	**24**	1.1	0.39	**7.0**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.073	0.056	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.23	0.18	**0.066**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	11	0.34	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.064	0.059	
108-05-4	Vinyl Acetate	**5.8**	11	1.5	**1.7**	3.3	0.42	**J**
78-93-3	2-Butanone (MEK)	**2.9**	11	0.48	**0.98**	3.9	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00149

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
141-78-6	Ethyl Acetate	**3.3**	2.3	0.80	**0.93**	0.64	0.22	
110-54-3	n-Hexane	**0.61**	1.1	0.34	**0.17**	0.32	0.097	**J**
67-66-3	Chloroform	ND	0.23	0.20	ND	0.047	0.042	
109-99-9	Tetrahydrofuran (THF)	**1.2**	1.1	0.46	**0.41**	0.39	0.16	
107-06-2	1,2-Dichloroethane	**0.22**	0.23	0.14	**0.053**	0.057	0.035	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**0.56**	0.23	0.18	**0.18**	0.072	0.057	
56-23-5	Carbon Tetrachloride	**0.47**	0.23	0.20	**0.075**	0.036	0.031	
110-82-7	Cyclohexane	ND	2.3	0.66	ND	0.67	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.041	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.034	0.023	
79-01-6	Trichloroethene	ND	0.23	0.20	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.1	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.71	ND	0.56	0.17	
142-82-5	n-Heptane	**0.57**	1.1	0.39	**0.14**	0.28	0.095	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.32	ND	0.25	0.071	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.37	ND	0.28	0.089	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.37	ND	0.25	0.081	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.034	
108-88-3	Toluene	**1.8**	1.1	0.39	**0.48**	0.30	0.10	
591-78-6	2-Hexanone	ND	1.1	0.37	ND	0.28	0.089	
124-48-1	Dibromochloromethane	ND	0.23	0.19	ND	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.19	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**0.87**	1.1	0.37	**0.18**	0.24	0.077	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00149

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.73**	1.1	0.41	**0.16**	0.25	0.088	**J**
127-18-4	Tetrachloroethene	ND	0.23	0.16	ND	0.034	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.041	
100-41-4	Ethylbenzene	**1.5**	1.1	0.37	**0.34**	0.26	0.084	
179601-23-1	m,p-Xylenes	**1.8**	1.1	0.66	**0.42**	0.26	0.15	
75-25-2	Bromoform	ND	1.1	0.34	ND	0.11	0.033	
100-42-5	Styrene	**0.53**	1.1	0.34	**0.12**	0.27	0.081	**J**
95-47-6	o-Xylene	**0.60**	1.1	0.34	**0.14**	0.26	0.079	**J**
111-84-2	n-Nonane	**0.70**	1.1	0.34	**0.13**	0.22	0.066	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.033	0.028	
98-82-8	Cumene	ND	1.1	0.34	ND	0.23	0.070	
80-56-8	alpha-Pinene	**1.2**	1.1	0.32	**0.21**	0.21	0.058	
103-65-1	n-Propylbenzene	ND	1.1	0.37	ND	0.23	0.075	
622-96-8	4-Ethyltoluene	ND	1.1	0.37	ND	0.23	0.075	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.37	ND	0.23	0.075	
95-63-6	1,2,4-Trimethylbenzene	**0.92**	1.1	0.34	**0.19**	0.23	0.070	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.035	
5989-27-5	d-Limonene	**11**	1.1	0.32	**1.9**	0.21	0.058	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.23	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.37	ND	0.15	0.049	
91-20-3	Naphthalene	**1.3**	1.1	0.41	**0.24**	0.22	0.079	
87-68-3	Hexachlorobutadiene	ND	1.1	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-003

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes: **T**

Container ID: CC00149

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.73 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.29

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.50	Methyl Alcohol	**11**	
4.71	n-Butane	**7.0**	
7.34	unknown	**4.4**	
8.42	Acetic Acid	**5.8**	
14.19	Hexamethylcyclotrisiloxane	**32**	
17.18	n-Octanal	**6.6**	
17.43	unknown hydrocarbon	**5.0**	
17.73	p-Isopropyltoluene	**6.0**	
17.92	unknown hydrocarbon	**6.8**	
18.03	unknown	**29**	
18.20	unknown hydrocarbon	**5.4**	
18.26	unknown hydrocarbon	**20**	
18.30	unknown hydrocarbon	**21**	
18.47	unknown hydrocarbon	**20**	
18.62	unknown hydrocarbon	**5.8**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P1601719-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00146

Date Collected: 3/31/16
Date Received: 4/2/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.79 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.9**	1.0	0.29	**1.7**	0.60	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	0.35	**0.42**	0.21	0.071	
74-87-3	Chloromethane	**0.54**	0.41	0.29	**0.26**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.081	0.077	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.050	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**29**	10	1.7	**15**	5.5	0.88	
75-05-8	Acetonitrile	**0.38**	1.0	0.37	**0.23**	0.62	0.22	**J**
107-02-8	Acrolein	**1.1**	4.1	0.35	**0.46**	1.8	0.15	**J**
67-64-1	Acetone	**16**	10	1.6	**6.8**	4.4	0.67	
75-69-4	Trichlorofluoromethane	**1.1**	0.21	0.12	**0.19**	0.037	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.2**	10	0.87	**2.5**	4.2	0.35	**J**
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.48	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.049	
75-09-2	Methylene Chloride	**16**	1.0	0.35	**4.5**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.21	0.17	**0.062**	0.027	0.022	
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.3	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**2.7**	10	1.3	**0.76**	2.9	0.38	**J**
78-93-3	2-Butanone (MEK)	**1.6**	10	0.43	**0.54**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00146

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.79 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	**5.1**	2.1	0.72	**1.4**	0.57	0.20	
110-54-3	n-Hexane	**0.40**	1.0	0.31	**0.11**	0.29	0.088	**J**
67-66-3	Chloroform	**0.19**	0.21	0.18	**0.039**	0.042	0.038	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	**0.39**	0.21	0.13	**0.097**	0.051	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**0.56**	0.21	0.16	**0.18**	0.065	0.051	
56-23-5	Carbon Tetrachloride	**0.46**	0.21	0.18	**0.074**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.60	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.045	0.037	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.18	ND	0.039	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.29	0.092	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.51	0.16	
142-82-5	n-Heptane	**0.43**	1.0	0.35	**0.11**	0.25	0.086	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.064	
108-10-1	4-Methyl-2-pentanone	**0.36**	1.0	0.33	**0.087**	0.25	0.081	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.073	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.038	0.030	
108-88-3	Toluene	**2.1**	1.0	0.35	**0.55**	0.27	0.093	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.25	0.081	
124-48-1	Dibromochloromethane	ND	0.21	0.18	ND	0.024	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**1.8**	1.0	0.33	**0.37**	0.22	0.070	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P1601719-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00146

Date Collected: 3/31/16

Date Received: 4/2/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.79 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.37	ND	0.22	0.080	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	**0.43**	1.0	0.33	**0.099**	0.24	0.076	**J**
179601-23-1	m,p-Xylenes	**0.99**	1.0	0.60	**0.23**	0.24	0.14	**J**
75-25-2	Bromoform	ND	1.0	0.31	ND	0.10	0.030	
100-42-5	Styrene	**0.41**	1.0	0.31	**0.097**	0.24	0.073	**J**
95-47-6	o-Xylene	**0.38**	1.0	0.31	**0.087**	0.24	0.072	**J**
111-84-2	n-Nonane	**0.40**	1.0	0.31	**0.076**	0.20	0.059	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
80-56-8	alpha-Pinene	**1.6**	1.0	0.29	**0.29**	0.19	0.052	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.31	ND	0.21	0.063	
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**2.6**	1.0	0.29	**0.46**	0.19	0.052	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.045	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.071	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.097	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719

ALS Sample ID: P160405-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601719

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 3/31/16
Analyst: Wida Ang Date(s) Received: 4/2/16
Sample Type: Canister(s) Date(s) Analyzed: 4/5/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160405-MB	**102**	**98**	**102**	70-130	
	P160405-LCS	**99**	**93**	**104**	70-130	
	P1601719-001	**103**	**96**	**103**	70-130	
	P1601719-002	**103**	**97**	**104**	70-130	
	P1601719-003	**102**	**97**	**104**	70-130	
	P1601719-004	**101**	**96**	**104**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**182**	**93**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**177**	**94**	65-117	
74-87-3	Chloromethane	200	**225**	**113**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**190**	**93**	65-122	
75-01-4	Vinyl Chloride	200	**218**	**109**	65-128	
106-99-0	1,3-Butadiene	206	**224**	**109**	62-143	
74-83-9	Bromomethane	202	**212**	**105**	65-130	
75-00-3	Chloroethane	200	**204**	**102**	69-126	
64-17-5	Ethanol	998	**982**	**98**	57-126	
75-05-8	Acetonitrile	212	**200**	**94**	51-134	
107-02-8	Acrolein	214	**209**	**98**	55-146	
67-64-1	Acetone	1,080	**949**	**88**	57-120	
75-69-4	Trichlorofluoromethane	216	**178**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**419**	**100**	59-129	
107-13-1	Acrylonitrile	212	**227**	**107**	64-136	
75-35-4	1,1-Dichloroethene	216	**220**	**102**	72-123	
75-09-2	Methylene Chloride	222	**197**	**89**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**247**	**113**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**207**	**94**	68-118	
75-15-0	Carbon Disulfide	210	**167**	**80**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**222**	**106**	69-129	
75-34-3	1,1-Dichloroethane	212	**202**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**206**	**95**	55-128	
108-05-4	Vinyl Acetate	1,040	**1140**	**110**	66-140	
78-93-3	2-Butanone (MEK)	220	**177**	**80**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**223**	**102**	65-125	
141-78-6	Ethyl Acetate	428	**434**	**101**	64-132	
110-54-3	n-Hexane	212	**164**	**77**	58-126	
67-66-3	Chloroform	224	**209**	**93**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**221**	**100**	64-123	
107-06-2	1,2-Dichloroethane	214	**206**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**216**	**103**	68-120	
71-43-2	Benzene	226	**206**	**91**	61-110	
56-23-5	Carbon Tetrachloride	230	**228**	**99**	65-137	
110-82-7	Cyclohexane	424	**405**	**96**	68-122	
78-87-5	1,2-Dichloropropane	216	**213**	**99**	67-122	
75-27-4	Bromodichloromethane	218	**234**	**107**	71-124	
79-01-6	Trichloroethene	216	**203**	**94**	71-121	
123-91-1	1,4-Dioxane	210	**243**	**116**	67-122	
80-62-6	Methyl Methacrylate	422	**427**	**101**	76-130	
142-82-5	n-Heptane	216	**199**	**92**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**223**	**107**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**235**	**107**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**238**	**113**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**225**	**104**	73-121	
108-88-3	Toluene	218	**164**	**75**	67-117	
591-78-6	2-Hexanone	220	**220**	**100**	59-128	
124-48-1	Dibromochloromethane	220	**231**	**105**	73-132	
106-93-4	1,2-Dibromoethane	218	**217**	**100**	73-128	
123-86-4	n-Butyl Acetate	226	**238**	**105**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601719
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**190**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**200**	**91**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**394**	**92**	67-125	
75-25-2	Bromoform	228	**233**	**102**	68-153	
100-42-5	Styrene	222	**228**	**103**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**196**	**96**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**206**	**98**	72-128	
98-82-8	Cumene	208	**192**	**92**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**200**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**198**	**93**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**206**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**257**	**117**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**213**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**210**	**95**	62-134	
5989-27-5	d-Limonene	210	**217**	**103**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**235**	**108**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**221**	**96**	60-145	
91-20-3	Naphthalene	218	**215**	**99**	56-158	
87-68-3	Hexachlorobutadiene	230	**205**	**89**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 8, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 4, 2016. For your reference, these analyses have been assigned our service request number P1601737.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 11:04 am, Apr 08, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601737
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

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The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601737
Project ID: Aliso Canyon / 603287048

Date Received: 4/4/2016
Time Received: 09:27

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601737-001	Air	4/1/2016	08:27	CC00171	-5.27	3.65	X
P1601737-002	Air	4/1/2016	09:26	CC00170	-5.02	3.63	X
P1601737-003	Air	4/1/2016	09:25	CC00173	-6.77	3.63	X
P1601737-004	Air	4/1/2016	10:27	CC00172	-3.43	3.75	X
P1601737-005	Air	4/1/2016	11:46	CC00162	-4.74	3.68	X
P1601737-006	Air	4/1/2016	13:10	CC00177	-6.21	3.69	X
P1601737-007	Air	4/1/2016	15:10	CC00167	-4.91	3.69	X
P1601737-008	Air	4/1/2016	14:30	CC00176	-6.08	4.04	X

P1601737

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP *NOT APPLICABLE BUT INFO FROM COC SHEET	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: IVAN MYERS / KURT SEIBERT	
	Rotameter: KEY INSTRUMENTS Serial # : 001459	Expiration Date: 4-28-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	Avg:						REGTECH TO CAN SN 1431 AIRTECH SN 1045 GUASE ETR 7602 FLOW ATL FC 2041
12-SU (1)	START PSI -27.5 END PSI	↓	-27.5	-10	855	0827	1412	—	SI
			Avg:	KUBS 4-2					
11-SU (2)	START PSI -28 END PSI		-28	-9.5	955	0926	1411	—	CAN: REGTECH TO CAN SN 1360 ATL FC 29 AIRTECH LAB SN 1328 GUASE ETR 7602
			Avg:	KUBS 4-2					
11-SU-D1 (3)	START PSI -28.5 END PSI		-28.5	-13	955	0925	1410	—	CAN: REGTECH TO CAN SN 1360 ATL FC 2188 SN 1434 GUASE ETR
			Avg:	KUBS 4-2					
112-SU (4)	START PSI -26 PSI END PSI		-26	-7	1058	1027	1409	—	REGTECH TO CAN SN 1448 GUASE FC # 2118 AIRTECH LABEL SN 1334
			Avg:	KUBS 4-2					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Stevens	Date: 4-2-16	Time: 1604	Received by:	Date: 4/2/16	Time: 4:14		
Relinquished by: Ines Calvo Pen	Date: 4-4-16	Time: 0818	Received by:	Date: 4/4/16	Time: 0818		
Relinquished by:	Date: 4/4/16	Time: 0927	Received by:	Date: 4/4/16	Time: 0927		

P1601737 Page 2 of 3

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: IVAN MIYERS / KURT SEVBERT	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
6 of 45 ✓ 6-SU ⑤	START PRESS END PRESS	START PRES -28 PSI END PSI	-28	-9	1222	1146	1404	—	CANISTER SN 3597 (RESTEK TO CAN) AIR TECH LABS (1361 SN) REGULATOR FC2067
			Avg: WBS 4-2-16						
Δ 46-SU ⑥	START PRESS -29 PSI END PRESS		-29	-12.5	1422	1310	1368	—	CANISTER SN 1469 RESTEK TO CAN AIRTECH SN 1041 REGULATOR FC 1940
			Avg: WBS 4-2-16						
✱ 9-TB	START PRES								CANISTER SN 1013 RESTEK AIR TECH SN 1438 REGULATION FC7032
	END PRESS		Avg:						
9-SU ⑦	START PRES -29.5 END PRESS		-29.5	-9.5	1530	1510	1420	—	CANISTER SN 5436 AIRTECH SN 1846 REGULATOR FC7004
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods Δ: NOTE FIELD BLANK IS AT PROPERTY 46
✱: FIELD VOIDED BECAUSE OF EQUIPMENT MALFUNCTION (GAUGE READ) -14 PSI WENT VALVE

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Relinquished by: Wallace Seamons	Date: 4-2-16	Time: 1404	Received by:	Date:	Time:	
Relinquished by:	Date: 4/4/16	Time: 0818	Received by:	Date: 4/4/16	Time: 0818	
Relinquished by:	Date: 4/4/16	Time: 0927	Received by:	Date: 4/4/16	Time: 0927	

COMPLETELY OPEN. WHEN VALVE WAS RESEATED GAUGE READINGS DID NOT CHANGE, & WHEN GAUGE WAS REMOVED THE PSI REMAINED STUCK AT -14.

P1601737

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/1/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** IVAN MYERS/KURT SEUBERT
	Rotameter: **Serial # :**	**Expiration Date:**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
				Avg:					
71-SU	START -29.0 END PRESS		-29	-11	1457	1480	1/18	—	CAN SN 3551 AIRTECH SN 1393 REGULATOR AIRTECH LABS SC 7048
				Avg: LABS 4-2-16					
				Avg:					
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Services	Date: 4-2-16	Time: 1404	Received by:	Date:	Time:		
Relinquished by: [signature]	Date: 4-4-16	Time: 08 18	Received by: [signature]	Date: 4/4/16	Time: 0818		
Relinquished by: [signature]	Date: 4/4/16	Time: 0927	Received by: [signature]	Date: 4/4/16	Time: 0927		

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601737

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/4/16 Date opened: 4/4/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601737-001.01	Canister					
P1601737-002.01	Canister					
P1601737-003.01	Canister					
P1601737-004.01	Canister					
P1601737-005.01	Canister					
P1601737-006.01	Canister					
P1601737-007.01	Canister					
P1601737-008.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00171

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.27 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.95

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.1**	0.98	0.27	**1.8**	0.57	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.98	0.33	**0.43**	0.20	0.067	
74-87-3	Chloromethane	**0.56**	0.39	0.27	**0.27**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.98	0.37	ND	0.14	0.053	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.076	0.072	
106-99-0	1,3-Butadiene	ND	0.39	0.27	ND	0.18	0.12	
74-83-9	Bromomethane	ND	0.39	0.18	ND	0.10	0.047	
75-00-3	Chloroethane	ND	0.39	0.17	ND	0.15	0.064	
64-17-5	Ethanol	**150**	9.8	1.6	**77**	5.2	0.83	
75-05-8	Acetonitrile	ND	0.98	0.35	ND	0.58	0.21	
107-02-8	Acrolein	**2.0**	3.9	0.33	**0.88**	1.7	0.14	**J**
67-64-1	Acetone	**26**	9.8	1.5	**11**	4.1	0.63	
75-69-4	Trichlorofluoromethane	**1.4**	0.20	0.11	**0.24**	0.035	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.5**	9.8	0.82	**1.0**	4.0	0.33	**J**
107-13-1	Acrylonitrile	ND	0.98	0.33	ND	0.45	0.15	
75-35-4	1,1-Dichloroethene	ND	0.20	0.18	ND	0.049	0.046	
75-09-2	Methylene Chloride	**41**	0.98	0.33	**12**	0.28	0.095	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.062	0.047	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.20	0.16	**0.064**	0.025	0.020	
75-15-0	Carbon Disulfide	**1.1**	9.8	0.29	**0.36**	3.1	0.094	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.049	0.045	
75-34-3	1,1-Dichloroethane	ND	0.20	0.15	ND	0.048	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.18	ND	0.054	0.050	
108-05-4	Vinyl Acetate	**2.4**	9.8	1.3	**0.69**	2.8	0.36	**J**
78-93-3	2-Butanone (MEK)	**2.2**	9.8	0.41	**0.76**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00171

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.27 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.95

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.049	0.045	
141-78-6	Ethyl Acetate	**5.7**	2.0	0.68	**1.6**	0.54	0.19	
110-54-3	n-Hexane	**0.84**	0.98	0.29	**0.24**	0.28	0.083	**J**
67-66-3	Chloroform	**2.1**	0.20	0.17	**0.43**	0.040	0.036	
109-99-9	Tetrahydrofuran (THF)	ND	0.98	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	**1.2**	0.20	0.12	**0.30**	0.048	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.14	ND	0.036	0.026	
71-43-2	Benzene	**1.2**	0.20	0.15	**0.39**	0.061	0.048	
56-23-5	Carbon Tetrachloride	**1.1**	0.20	0.17	**0.18**	0.031	0.027	
110-82-7	Cyclohexane	ND	2.0	0.57	ND	0.57	0.16	
78-87-5	1,2-Dichloropropane	ND	0.20	0.16	ND	0.042	0.035	
75-27-4	Bromodichloromethane	ND	0.20	0.13	ND	0.029	0.020	
79-01-6	Trichloroethene	ND	0.20	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.98	0.31	ND	0.27	0.087	
80-62-6	Methyl Methacrylate	ND	2.0	0.60	ND	0.48	0.15	
142-82-5	n-Heptane	**0.73**	0.98	0.33	**0.18**	0.24	0.081	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.98	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	**2.4**	0.98	0.31	**0.58**	0.24	0.076	
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.31	ND	0.21	0.069	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.036	0.029	
108-88-3	Toluene	**3.4**	0.98	0.33	**0.90**	0.26	0.088	
591-78-6	2-Hexanone	ND	0.98	0.31	ND	0.24	0.076	
124-48-1	Dibromochloromethane	**0.27**	0.20	0.17	**0.031**	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.025	0.022	
123-86-4	n-Butyl Acetate	**1.2**	0.98	0.31	**0.26**	0.21	0.066	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00171

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.27 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.95

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.98	0.35	ND	0.21	0.075	
127-18-4	Tetrachloroethene	ND	0.20	0.14	ND	0.029	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	**0.51**	0.98	0.31	**0.12**	0.22	0.072	**J**
179601-23-1	m,p-Xylenes	**1.5**	0.98	0.57	**0.35**	0.22	0.13	
75-25-2	Bromoform	ND	0.98	0.29	ND	0.094	0.028	
100-42-5	Styrene	**0.73**	0.98	0.29	**0.17**	0.23	0.069	**J**
95-47-6	o-Xylene	**0.57**	0.98	0.29	**0.13**	0.22	0.067	**J**
111-84-2	n-Nonane	ND	0.98	0.29	ND	0.19	0.056	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.16	ND	0.028	0.024	
98-82-8	Cumene	ND	0.98	0.29	ND	0.20	0.060	
80-56-8	alpha-Pinene	**2.9**	0.98	0.27	**0.52**	0.18	0.049	
103-65-1	n-Propylbenzene	ND	0.98	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.98	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.98	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	**0.53**	0.98	0.29	**0.11**	0.20	0.060	**J**
100-44-7	Benzyl Chloride	ND	0.98	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.15	ND	0.032	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**27**	0.98	0.27	**4.9**	0.18	0.049	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.98	0.19	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.98	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	**0.40**	0.98	0.35	**0.077**	0.19	0.067	**J**
87-68-3	Hexachlorobutadiene	ND	0.98	0.27	ND	0.091	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00170

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.89

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.6**	0.95	0.26	**1.5**	0.55	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.95	0.32	**0.43**	0.19	0.065	
74-87-3	Chloromethane	**0.52**	0.38	0.26	**0.25**	0.18	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.95	0.36	ND	0.14	0.051	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.074	0.070	
106-99-0	1,3-Butadiene	ND	0.38	0.26	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.18	ND	0.097	0.045	
75-00-3	Chloroethane	ND	0.38	0.16	ND	0.14	0.062	
64-17-5	Ethanol	**86**	9.5	1.5	**46**	5.0	0.80	
75-05-8	Acetonitrile	ND	0.95	0.34	ND	0.56	0.20	
107-02-8	Acrolein	**1.6**	3.8	0.32	**0.68**	1.6	0.14	**J**
67-64-1	Acetone	**22**	9.5	1.5	**9.1**	4.0	0.61	
75-69-4	Trichlorofluoromethane	**1.2**	0.19	0.11	**0.21**	0.034	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.8**	9.5	0.79	**2.8**	3.8	0.32	**J**
107-13-1	Acrylonitrile	ND	0.95	0.32	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.048	0.044	
75-09-2	Methylene Chloride	**90**	0.95	0.32	**26**	0.27	0.093	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.14	ND	0.060	0.046	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.19	0.15	**0.068**	0.025	0.020	
75-15-0	Carbon Disulfide	**0.62**	9.5	0.28	**0.20**	3.0	0.091	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.043	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.047	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.052	0.049	
108-05-4	Vinyl Acetate	**1.9**	9.5	1.2	**0.54**	2.7	0.35	**J**
78-93-3	2-Butanone (MEK)	**1.9**	9.5	0.40	**0.66**	3.2	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00170

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.89

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.044	
141-78-6	Ethyl Acetate	**5.1**	1.9	0.66	**1.4**	0.52	0.18	
110-54-3	n-Hexane	**0.53**	0.95	0.28	**0.15**	0.27	0.080	**J**
67-66-3	Chloroform	**0.22**	0.19	0.17	**0.045**	0.039	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.95	0.38	ND	0.32	0.13	
107-06-2	1,2-Dichloroethane	**0.18**	0.19	0.12	**0.044**	0.047	0.029	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**0.72**	0.19	0.15	**0.23**	0.059	0.047	
56-23-5	Carbon Tetrachloride	**0.46**	0.19	0.16	**0.074**	0.030	0.026	
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.55	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.041	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.035	0.031	
123-91-1	1,4-Dioxane	ND	0.95	0.30	ND	0.26	0.084	
80-62-6	Methyl Methacrylate	ND	1.9	0.59	ND	0.46	0.14	
142-82-5	n-Heptane	**0.35**	0.95	0.32	**0.086**	0.23	0.078	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.95	0.26	ND	0.21	0.058	
108-10-1	4-Methyl-2-pentanone	**0.38**	0.95	0.30	**0.094**	0.23	0.074	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.95	0.30	ND	0.21	0.067	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**1.9**	0.95	0.32	**0.51**	0.25	0.085	
591-78-6	2-Hexanone	ND	0.95	0.30	ND	0.23	0.074	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**2.2**	0.95	0.30	**0.45**	0.20	0.064	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00170

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.02 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.89

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.48**	0.95	0.34	**0.10**	0.20	0.073	**J**
127-18-4	Tetrachloroethene	**0.18**	0.19	0.14	**0.026**	0.028	0.020	**J**
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.041	0.034	
100-41-4	Ethylbenzene	**0.38**	0.95	0.30	**0.087**	0.22	0.070	**J**
179601-23-1	m,p-Xylenes	**0.91**	0.95	0.55	**0.21**	0.22	0.13	**J**
75-25-2	Bromoform	ND	0.95	0.28	ND	0.091	0.027	
100-42-5	Styrene	**0.42**	0.95	0.28	**0.099**	0.22	0.067	**J**
95-47-6	o-Xylene	**0.34**	0.95	0.28	**0.079**	0.22	0.065	**J**
111-84-2	n-Nonane	**2.6**	0.95	0.28	**0.50**	0.18	0.054	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.023	
98-82-8	Cumene	ND	0.95	0.28	ND	0.19	0.058	
80-56-8	alpha-Pinene	**1.5**	0.95	0.26	**0.27**	0.17	0.048	
103-65-1	n-Propylbenzene	ND	0.95	0.30	ND	0.19	0.062	
622-96-8	4-Ethyltoluene	ND	0.95	0.30	ND	0.19	0.062	
108-67-8	1,3,5-Trimethylbenzene	ND	0.95	0.30	ND	0.19	0.062	
95-63-6	1,2,4-Trimethylbenzene	ND	0.95	0.28	ND	0.19	0.058	
100-44-7	Benzyl Chloride	ND	0.95	0.21	ND	0.18	0.040	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.023	
106-46-7	1,4-Dichlorobenzene	**0.67**	0.19	0.14	**0.11**	0.031	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.031	0.029	
5989-27-5	d-Limonene	**7.0**	0.95	0.26	**1.3**	0.17	0.048	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.95	0.19	ND	0.098	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	0.95	0.30	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.95	0.34	ND	0.18	0.065	
87-68-3	Hexachlorobutadiene	ND	0.95	0.26	ND	0.089	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00173

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.77 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.4**	1.2	0.32	**2.5**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.2	0.39	**0.43**	0.23	0.079	
74-87-3	Chloromethane	**0.56**	0.46	0.32	**0.27**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.44	ND	0.17	0.063	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.090	0.086	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.15	
74-83-9	Bromomethane	ND	0.46	0.21	ND	0.12	0.055	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.18	0.076	
64-17-5	Ethanol	**86**	12	1.8	**46**	6.1	0.98	
75-05-8	Acetonitrile	ND	1.2	0.42	ND	0.69	0.25	
107-02-8	Acrolein	**2.1**	4.6	0.39	**0.93**	2.0	0.17	**J**
67-64-1	Acetone	**22**	12	1.8	**9.1**	4.9	0.75	
75-69-4	Trichlorofluoromethane	**1.2**	0.23	0.13	**0.22**	0.041	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.9**	12	0.97	**2.8**	4.7	0.39	**J**
107-13-1	Acrylonitrile	ND	1.2	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
75-09-2	Methylene Chloride	**100**	1.2	0.39	**29**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.18	ND	0.074	0.056	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.23	0.18	**0.064**	0.030	0.024	
75-15-0	Carbon Disulfide	**1.7**	12	0.35	**0.54**	3.7	0.11	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.064	0.060	
108-05-4	Vinyl Acetate	**2.2**	12	1.5	**0.62**	3.3	0.43	**J**
78-93-3	2-Butanone (MEK)	**2.4**	12	0.49	**0.80**	3.9	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00173

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.77 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
141-78-6	Ethyl Acetate	**6.4**	2.3	0.81	**1.8**	0.64	0.22	
110-54-3	n-Hexane	**0.54**	1.2	0.35	**0.15**	0.33	0.098	**J**
67-66-3	Chloroform	**0.22**	0.23	0.21	**0.045**	0.047	0.042	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.46	ND	0.39	0.16	
107-06-2	1,2-Dichloroethane	**0.17**	0.23	0.14	**0.043**	0.057	0.035	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**0.78**	0.23	0.18	**0.24**	0.072	0.057	
56-23-5	Carbon Tetrachloride	**0.47**	0.23	0.20	**0.075**	0.037	0.032	
110-82-7	Cyclohexane	ND	2.3	0.67	ND	0.67	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.042	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.034	0.023	
79-01-6	Trichloroethene	ND	0.23	0.21	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.2	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.72	ND	0.56	0.17	
142-82-5	n-Heptane	ND	1.2	0.39	ND	0.28	0.096	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.32	ND	0.25	0.071	
108-10-1	4-Methyl-2-pentanone	**0.40**	1.2	0.37	**0.099**	0.28	0.090	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.37	ND	0.25	0.081	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.034	
108-88-3	Toluene	**1.9**	1.2	0.39	**0.51**	0.31	0.10	
591-78-6	2-Hexanone	ND	1.2	0.37	ND	0.28	0.090	
124-48-1	Dibromochloromethane	ND	0.23	0.20	ND	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.20	ND	0.030	0.026	
123-86-4	n-Butyl Acetate	**2.0**	1.2	0.37	**0.43**	0.24	0.078	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00173

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.77 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.55**	1.2	0.42	**0.12**	0.25	0.089	**J**
127-18-4	Tetrachloroethene	**0.18**	0.23	0.17	**0.026**	0.034	0.025	**J**
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.042	
100-41-4	Ethylbenzene	**0.41**	1.2	0.37	**0.095**	0.27	0.085	**J**
179601-23-1	m,p-Xylenes	**0.99**	1.2	0.67	**0.23**	0.27	0.15	**J**
75-25-2	Bromoform	ND	1.2	0.35	ND	0.11	0.034	
100-42-5	Styrene	**0.43**	1.2	0.35	**0.10**	0.27	0.081	**J**
95-47-6	o-Xylene	**0.38**	1.2	0.35	**0.088**	0.27	0.080	**J**
111-84-2	n-Nonane	**2.7**	1.2	0.35	**0.51**	0.22	0.066	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.034	0.028	
98-82-8	Cumene	**3.5**	1.2	0.35	**0.71**	0.24	0.071	
80-56-8	alpha-Pinene	**1.5**	1.2	0.32	**0.27**	0.21	0.058	
103-65-1	n-Propylbenzene	ND	1.2	0.37	ND	0.24	0.075	
622-96-8	4-Ethyltoluene	ND	1.2	0.37	ND	0.24	0.075	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.37	ND	0.24	0.075	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.35	ND	0.24	0.071	
100-44-7	Benzyl Chloride	ND	1.2	0.25	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	**0.62**	0.23	0.18	**0.10**	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.036	
5989-27-5	d-Limonene	**7.6**	1.2	0.32	**1.4**	0.21	0.058	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.23	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.37	ND	0.16	0.050	
91-20-3	Naphthalene	ND	1.2	0.42	ND	0.22	0.079	
87-68-3	Hexachlorobutadiene	ND	1.2	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00172

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**8.1**	0.82	0.23	**4.7**	0.48	0.13	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.82	0.28	**0.43**	0.17	0.056	
74-87-3	Chloromethane	**0.59**	0.33	0.23	**0.29**	0.16	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	0.31	ND	0.12	0.045	
75-01-4	Vinyl Chloride	ND	0.16	0.16	ND	0.064	0.061	
106-99-0	1,3-Butadiene	ND	0.33	0.23	ND	0.15	0.10	
74-83-9	Bromomethane	ND	0.33	0.15	ND	0.085	0.039	
75-00-3	Chloroethane	ND	0.33	0.14	ND	0.12	0.054	
64-17-5	Ethanol	**56**	8.2	1.3	**30**	4.4	0.70	
75-05-8	Acetonitrile	**0.65**	0.82	0.30	**0.39**	0.49	0.18	**J**
107-02-8	Acrolein	**2.2**	3.3	0.28	**0.96**	1.4	0.12	**J**
67-64-1	Acetone	**17**	8.2	1.3	**7.3**	3.5	0.53	
75-69-4	Trichlorofluoromethane	**0.84**	0.16	0.093	**0.15**	0.029	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	**13**	8.2	0.69	**5.4**	3.3	0.28	
107-13-1	Acrylonitrile	ND	0.82	0.28	ND	0.38	0.13	
75-35-4	1,1-Dichloroethene	ND	0.16	0.15	ND	0.041	0.038	
75-09-2	Methylene Chloride	**84**	0.82	0.28	**24**	0.24	0.080	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.12	ND	0.052	0.040	
76-13-1	Trichlorotrifluoroethane	**0.37**	0.16	0.13	**0.048**	0.021	0.017	
75-15-0	Carbon Disulfide	**6.9**	8.2	0.25	**2.2**	2.6	0.079	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.15	ND	0.041	0.038	
75-34-3	1,1-Dichloroethane	ND	0.16	0.13	ND	0.041	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.15	ND	0.046	0.042	
108-05-4	Vinyl Acetate	**6.7**	8.2	1.1	**1.9**	2.3	0.30	**J**
78-93-3	2-Butanone (MEK)	**2.7**	8.2	0.34	**0.92**	2.8	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00172

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.15	ND	0.041	0.038	
141-78-6	Ethyl Acetate	**230**	1.6	0.57	**63**	0.46	0.16	
110-54-3	n-Hexane	ND	0.82	0.25	ND	0.23	0.070	
67-66-3	Chloroform	**0.30**	0.16	0.15	**0.061**	0.034	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.82	0.33	ND	0.28	0.11	
107-06-2	1,2-Dichloroethane	**0.12**	0.16	0.10	**0.030**	0.041	0.025	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.12	ND	0.030	0.022	
71-43-2	Benzene	**1.3**	0.16	0.13	**0.40**	0.051	0.041	
56-23-5	Carbon Tetrachloride	**0.34**	0.16	0.14	**0.054**	0.026	0.022	
110-82-7	Cyclohexane	ND	1.6	0.48	ND	0.48	0.14	
78-87-5	1,2-Dichloropropane	ND	0.16	0.14	ND	0.035	0.029	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	ND	0.16	0.15	ND	0.031	0.027	
123-91-1	1,4-Dioxane	ND	0.82	0.26	ND	0.23	0.073	
80-62-6	Methyl Methacrylate	ND	1.6	0.51	ND	0.40	0.12	
142-82-5	n-Heptane	**0.42**	0.82	0.28	**0.10**	0.20	0.068	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.23	ND	0.18	0.051	
108-10-1	4-Methyl-2-pentanone	**0.35**	0.82	0.26	**0.085**	0.20	0.064	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	0.26	ND	0.18	0.058	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.13	ND	0.030	0.024	
108-88-3	Toluene	**5.9**	0.82	0.28	**1.6**	0.22	0.074	
591-78-6	2-Hexanone	ND	0.82	0.26	ND	0.20	0.064	
124-48-1	Dibromochloromethane	ND	0.16	0.14	ND	0.019	0.016	
106-93-4	1,2-Dibromoethane	ND	0.16	0.14	ND	0.021	0.018	
123-86-4	n-Butyl Acetate	**0.56**	0.82	0.26	**0.12**	0.17	0.055	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00172

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.82	0.30	ND	0.18	0.063	
127-18-4	Tetrachloroethene	ND	0.16	0.12	ND	0.024	0.017	
108-90-7	Chlorobenzene	ND	0.16	0.14	ND	0.036	0.030	
100-41-4	Ethylbenzene	**0.40**	0.82	0.26	**0.092**	0.19	0.060	**J**
179601-23-1	m,p-Xylenes	**1.3**	0.82	0.48	**0.30**	0.19	0.11	
75-25-2	Bromoform	ND	0.82	0.25	ND	0.079	0.024	
100-42-5	Styrene	**0.31**	0.82	0.25	**0.072**	0.19	0.058	**J**
95-47-6	o-Xylene	**0.47**	0.82	0.25	**0.11**	0.19	0.057	**J**
111-84-2	n-Nonane	ND	0.82	0.25	ND	0.16	0.047	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.14	ND	0.024	0.020	
98-82-8	Cumene	**0.40**	0.82	0.25	**0.080**	0.17	0.050	**J**
80-56-8	alpha-Pinene	**0.87**	0.82	0.23	**0.16**	0.15	0.041	
103-65-1	n-Propylbenzene	ND	0.82	0.26	ND	0.17	0.053	
622-96-8	4-Ethyltoluene	ND	0.82	0.26	ND	0.17	0.053	
108-67-8	1,3,5-Trimethylbenzene	ND	0.82	0.26	ND	0.17	0.053	
95-63-6	1,2,4-Trimethylbenzene	**0.33**	0.82	0.25	**0.067**	0.17	0.050	**J**
100-44-7	Benzyl Chloride	ND	0.82	0.18	ND	0.16	0.035	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.12	ND	0.027	0.020	
106-46-7	1,4-Dichlorobenzene	**0.32**	0.16	0.12	**0.053**	0.027	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.15	ND	0.027	0.025	
5989-27-5	d-Limonene	**6.6**	0.82	0.23	**1.2**	0.15	0.041	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	0.16	ND	0.085	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.82	0.26	ND	0.11	0.035	
91-20-3	Naphthalene	ND	0.82	0.30	ND	0.16	0.056	
87-68-3	Hexachlorobutadiene	ND	0.82	0.23	ND	0.077	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/1/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/4/16
Analyst:	Wida Ang	Date Analyzed:	4/6/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00172		

Initial Pressure (psig): -3.43 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.64

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.94	Sulfur Dioxide	**>78**	**!**
4.39	Acetaldehyde	**3.9**	
4.50	Methyl Alcohol	**14**	
4.70	n-Butane	**4.8**	
7.34	unknown	**7.6**	
10.67	Dimethylsilanediol	**3.3**	
11.73	Propylene Glycol	**3.7**	
13.30	n-Hexanal	**3.3**	
14.18	Hexamethylcyclotrisiloxane	**30**	
17.06	alpha-Methylstyrene	**3.8**	
18.04	Acetophenone	**6.7**	
18.30	alpha-Cumyl Alcohol	**59**	
18.47	n-Nonanal	**6.6**	
19.12	unknown	**4.7**	

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00162

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.2**	0.93	0.26	**2.4**	0.54	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.6**	0.93	0.31	**0.53**	0.19	0.064	
74-87-3	Chloromethane	**0.69**	0.37	0.26	**0.34**	0.18	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.93	0.35	ND	0.13	0.050	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.072	0.069	
106-99-0	1,3-Butadiene	ND	0.37	0.26	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.37	0.17	ND	0.095	0.044	
75-00-3	Chloroethane	ND	0.37	0.16	ND	0.14	0.061	
64-17-5	Ethanol	**250**	9.3	1.5	**130**	4.9	0.79	
75-05-8	Acetonitrile	ND	0.93	0.33	ND	0.55	0.20	
107-02-8	Acrolein	**7.8**	3.7	0.31	**3.4**	1.6	0.14	
67-64-1	Acetone	**33**	9.3	1.4	**14**	3.9	0.60	
75-69-4	Trichlorofluoromethane	**1.2**	0.19	0.11	**0.21**	0.033	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.9**	9.3	0.78	**2.8**	3.8	0.32	**J**
107-13-1	Acrylonitrile	ND	0.93	0.31	ND	0.43	0.14	
75-35-4	1,1-Dichloroethene	ND	0.19	0.17	ND	0.047	0.043	
75-09-2	Methylene Chloride	**44**	0.93	0.31	**13**	0.27	0.091	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.14	ND	0.059	0.045	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.19	0.15	**0.064**	0.024	0.019	
75-15-0	Carbon Disulfide	**17**	9.3	0.28	**5.3**	3.0	0.089	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.042	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.046	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.17	ND	0.051	0.048	
108-05-4	Vinyl Acetate	**6.5**	9.3	1.2	**1.8**	2.6	0.34	**J**
78-93-3	2-Butanone (MEK)	**3.1**	9.3	0.39	**1.0**	3.1	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00162

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.043	
141-78-6	Ethyl Acetate	**11**	1.9	0.65	**2.9**	0.51	0.18	
110-54-3	n-Hexane	**6.0**	0.93	0.28	**1.7**	0.26	0.079	
67-66-3	Chloroform	**0.71**	0.19	0.16	**0.15**	0.038	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.93	0.37	ND	0.31	0.13	
107-06-2	1,2-Dichloroethane	**0.30**	0.19	0.11	**0.075**	0.046	0.028	
71-55-6	1,1,1-Trichloroethane	**2.8**	0.19	0.14	**0.51**	0.034	0.025	
71-43-2	Benzene	**2.2**	0.19	0.15	**0.68**	0.058	0.046	
56-23-5	Carbon Tetrachloride	**0.61**	0.19	0.16	**0.098**	0.029	0.025	
110-82-7	Cyclohexane	**0.98**	1.9	0.54	**0.28**	0.54	0.16	**J**
78-87-5	1,2-Dichloropropane	ND	0.19	0.15	ND	0.040	0.033	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.19	0.16	ND	0.034	0.031	
123-91-1	1,4-Dioxane	ND	0.93	0.30	ND	0.26	0.082	
80-62-6	Methyl Methacrylate	ND	1.9	0.57	ND	0.45	0.14	
142-82-5	n-Heptane	**2.9**	0.93	0.31	**0.71**	0.23	0.077	
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	**1.1**	0.93	0.30	**0.28**	0.23	0.072	
10061-02-6	trans-1,3-Dichloropropene	ND	0.93	0.30	ND	0.20	0.065	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.034	0.027	
108-88-3	Toluene	**8.4**	0.93	0.31	**2.2**	0.25	0.083	
591-78-6	2-Hexanone	ND	0.93	0.30	ND	0.23	0.072	
124-48-1	Dibromochloromethane	**0.18**	0.19	0.16	**0.022**	0.022	0.018	**J**
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.024	0.020	
123-86-4	n-Butyl Acetate	**1.7**	0.93	0.30	**0.36**	0.19	0.062	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00162

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.7**	0.93	0.33	**0.36**	0.20	0.071	
127-18-4	Tetrachloroethene	**0.19**	0.19	0.13	**0.028**	0.027	0.020	
108-90-7	Chlorobenzene	ND	0.19	0.15	ND	0.040	0.033	
100-41-4	Ethylbenzene	**1.1**	0.93	0.30	**0.25**	0.21	0.068	
179601-23-1	m,p-Xylenes	**3.5**	0.93	0.54	**0.81**	0.21	0.12	
75-25-2	Bromoform	**0.29**	0.93	0.28	**0.028**	0.089	0.027	**J**
100-42-5	Styrene	**0.61**	0.93	0.28	**0.14**	0.22	0.065	**J**
95-47-6	o-Xylene	**1.2**	0.93	0.28	**0.27**	0.21	0.064	
111-84-2	n-Nonane	**0.78**	0.93	0.28	**0.15**	0.18	0.053	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.027	0.023	
98-82-8	Cumene	ND	0.93	0.28	ND	0.19	0.056	
80-56-8	alpha-Pinene	**1.7**	0.93	0.26	**0.30**	0.17	0.046	
103-65-1	n-Propylbenzene	ND	0.93	0.30	ND	0.19	0.060	
622-96-8	4-Ethyltoluene	**0.34**	0.93	0.30	**0.069**	0.19	0.060	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.30**	0.93	0.30	**0.062**	0.19	0.060	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.1**	0.93	0.28	**0.22**	0.19	0.056	
100-44-7	Benzyl Chloride	ND	0.93	0.20	ND	0.18	0.039	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.023	
106-46-7	1,4-Dichlorobenzene	**0.15**	0.19	0.14	**0.025**	0.031	0.023	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.17	ND	0.031	0.029	
5989-27-5	d-Limonene	**5.6**	0.93	0.26	**1.0**	0.17	0.046	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.93	0.18	ND	0.096	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	0.93	0.30	ND	0.12	0.040	
91-20-3	Naphthalene	**0.93**	0.93	0.33	**0.18**	0.18	0.064	
87-68-3	Hexachlorobutadiene	ND	0.93	0.26	ND	0.087	0.024	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-005

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes: **T**

Container ID: CC00162

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.74 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.86	Chlorodifluoromethane	**65**	
4.51	Methyl Alcohol	**24**	
4.71	n-Butane	**13**	
6.40	n-Pentane	**17**	
6.50	Isoprene	**3.7**	
7.35	unknown	**6.2**	
7.93	Cyclopentane	**8.5**	
8.42	3-Methylpentane	**13**	
10.85	3-Methylhexane	**4.1**	
14.18	Hexamethylcyclotrisiloxane	**22**	
17.59	2-Ethyl-1-hexanol	**3.9**	
18.04	Acetophenone	**5.0**	
18.30	alpha-Cumyl Alcohol	**15**	
18.47	n-Nonanal	**7.0**	
19.12	unknown	**5.0**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00177

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.21 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.4**	1.1	0.30	**0.82**	0.63	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.1	0.37	**0.42**	0.22	0.075	
74-87-3	Chloromethane	**0.55**	0.43	0.30	**0.27**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.16	0.059	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.085	0.081	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.43	0.19	ND	0.16	0.072	
64-17-5	Ethanol	**90**	11	1.7	**48**	5.8	0.92	
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.65	0.23	
107-02-8	Acrolein	**2.2**	4.3	0.37	**0.94**	1.9	0.16	**J**
67-64-1	Acetone	**25**	11	1.7	**11**	4.6	0.70	
75-69-4	Trichlorofluoromethane	**1.6**	0.22	0.12	**0.28**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.7**	11	0.91	**1.5**	4.4	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**65**	1.1	0.37	**19**	0.31	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.16	ND	0.069	0.053	
76-13-1	Trichlorotrifluoroethane	**0.62**	0.22	0.17	**0.081**	0.028	0.023	
75-15-0	Carbon Disulfide	**19**	11	0.33	**6.1**	3.5	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.054	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.056	
108-05-4	Vinyl Acetate	**3.1**	11	1.4	**0.87**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**4.4**	11	0.46	**1.5**	3.7	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00177

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.21 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
141-78-6	Ethyl Acetate	**14**	2.2	0.76	**4.0**	0.60	0.21	
110-54-3	n-Hexane	**0.80**	1.1	0.33	**0.23**	0.31	0.092	**J**
67-66-3	Chloroform	**0.55**	0.22	0.19	**0.11**	0.044	0.040	
109-99-9	Tetrahydrofuran (THF)	**0.96**	1.1	0.43	**0.33**	0.37	0.15	**J**
107-06-2	1,2-Dichloroethane	**0.15**	0.22	0.13	**0.038**	0.054	0.033	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.040	0.029	
71-43-2	Benzene	**1.0**	0.22	0.17	**0.33**	0.068	0.054	
56-23-5	Carbon Tetrachloride	**0.47**	0.22	0.19	**0.074**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.63	ND	0.63	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.040	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.30	0.096	
80-62-6	Methyl Methacrylate	ND	2.2	0.67	ND	0.53	0.16	
142-82-5	n-Heptane	**0.56**	1.1	0.37	**0.14**	0.26	0.090	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.067	
108-10-1	4-Methyl-2-pentanone	**0.62**	1.1	0.35	**0.15**	0.26	0.085	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.077	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.040	0.032	
108-88-3	Toluene	**3.2**	1.1	0.37	**0.85**	0.29	0.098	
591-78-6	2-Hexanone	ND	1.1	0.35	ND	0.26	0.085	
124-48-1	Dibromochloromethane	ND	0.22	0.18	ND	0.025	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	**0.67**	1.1	0.35	**0.14**	0.23	0.073	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00177

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.21 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.084	
127-18-4	Tetrachloroethene	**0.17**	0.22	0.16	**0.025**	0.032	0.023	**J**
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	**0.49**	1.1	0.35	**0.11**	0.25	0.080	**J**
179601-23-1	m,p-Xylenes	**1.5**	1.1	0.63	**0.34**	0.25	0.14	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.10	0.031	
100-42-5	Styrene	**0.33**	1.1	0.33	**0.078**	0.25	0.076	**J**
95-47-6	o-Xylene	**0.61**	1.1	0.33	**0.14**	0.25	0.075	**J**
111-84-2	n-Nonane	**0.46**	1.1	0.33	**0.088**	0.21	0.062	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.032	0.027	
98-82-8	Cumene	**5.8**	1.1	0.33	**1.2**	0.22	0.066	
80-56-8	alpha-Pinene	**0.58**	1.1	0.30	**0.10**	0.19	0.055	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.071	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.071	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.071	
95-63-6	1,2,4-Trimethylbenzene	**0.53**	1.1	0.33	**0.11**	0.22	0.066	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	**2.0**	0.22	0.16	**0.33**	0.036	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.034	
5989-27-5	d-Limonene	**3.8**	1.1	0.30	**0.68**	0.19	0.055	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	ND	1.1	0.39	ND	0.21	0.075	
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-006

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/1/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/4/16
Analyst:	Wida Ang	Date Analyzed:	4/6/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00177		

Initial Pressure (psig): -6.21 Final Pressure (psig): 3.69

Canister Dilution Factor: 2.17

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.94	Sulfur Dioxide	**>76**	**!**
4.36	Isobutane	**4.6**	
4.50	Methyl Alcohol	**11**	
7.34	unknown	**15**	
11.75	2,4,4-Trimethyl-1-pentene	**4.2**	
12.19	Dimethyl disulfide	**7.6**	
14.18	Hexamethylcyclotrisiloxane	**10**	
17.06	alpha-Methylstyrene	**5.5**	
18.04	Acetophenone	**10**	
18.30	alpha-Cumyl Alcohol	**25**	
18.47	n-Nonanal	**5.5**	

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00167

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.91 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.94	0.26	ND	0.55	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.94	0.32	**0.42**	0.19	0.065	
74-87-3	Chloromethane	**0.51**	0.38	0.26	**0.25**	0.18	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.94	0.36	ND	0.13	0.051	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.074	0.070	
106-99-0	1,3-Butadiene	ND	0.38	0.26	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.17	ND	0.097	0.045	
75-00-3	Chloroethane	ND	0.38	0.16	ND	0.14	0.062	
64-17-5	Ethanol	**68**	9.4	1.5	**36**	5.0	0.80	
75-05-8	Acetonitrile	ND	0.94	0.34	ND	0.56	0.20	
107-02-8	Acrolein	**1.5**	3.8	0.32	**0.65**	1.6	0.14	**J**
67-64-1	Acetone	**19**	9.4	1.4	**8.2**	4.0	0.61	
75-69-4	Trichlorofluoromethane	**1.2**	0.19	0.11	**0.21**	0.033	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.4**	9.4	0.79	**0.56**	3.8	0.32	**J**
107-13-1	Acrylonitrile	ND	0.94	0.32	ND	0.43	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.17	ND	0.047	0.044	
75-09-2	Methylene Chloride	**27**	0.94	0.32	**7.9**	0.27	0.092	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.14	ND	0.060	0.046	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.19	0.15	**0.066**	0.025	0.020	
75-15-0	Carbon Disulfide	**2.3**	9.4	0.28	**0.73**	3.0	0.091	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.043	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.046	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.17	ND	0.052	0.049	
108-05-4	Vinyl Acetate	**2.1**	9.4	1.2	**0.59**	2.7	0.35	**J**
78-93-3	2-Butanone (MEK)	**1.9**	9.4	0.39	**0.64**	3.2	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00167

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.91 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.044	
141-78-6	Ethyl Acetate	**2.9**	1.9	0.66	**0.82**	0.52	0.18	
110-54-3	n-Hexane	**0.45**	0.94	0.28	**0.13**	0.27	0.080	**J**
67-66-3	Chloroform	**0.18**	0.19	0.17	**0.036**	0.039	0.034	**J**
109-99-9	Tetrahydrofuran (THF)	ND	0.94	0.38	ND	0.32	0.13	
107-06-2	1,2-Dichloroethane	**0.20**	0.19	0.12	**0.049**	0.046	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.034	0.026	
71-43-2	Benzene	**0.72**	0.19	0.15	**0.23**	0.059	0.047	
56-23-5	Carbon Tetrachloride	**0.47**	0.19	0.16	**0.075**	0.030	0.026	
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.55	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.041	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.035	0.031	
123-91-1	1,4-Dioxane	ND	0.94	0.30	ND	0.26	0.084	
80-62-6	Methyl Methacrylate	ND	1.9	0.58	ND	0.46	0.14	
142-82-5	n-Heptane	ND	0.94	0.32	ND	0.23	0.078	
10061-01-5	cis-1,3-Dichloropropene	ND	0.94	0.26	ND	0.21	0.058	
108-10-1	4-Methyl-2-pentanone	ND	0.94	0.30	ND	0.23	0.073	
10061-02-6	trans-1,3-Dichloropropene	ND	0.94	0.30	ND	0.21	0.066	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.034	0.028	
108-88-3	Toluene	**1.3**	0.94	0.32	**0.35**	0.25	0.085	
591-78-6	2-Hexanone	ND	0.94	0.30	ND	0.23	0.073	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.024	0.021	
123-86-4	n-Butyl Acetate	**0.64**	0.94	0.30	**0.14**	0.20	0.063	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00167

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.91 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.94	0.34	ND	0.20	0.072	
127-18-4	Tetrachloroethene	ND	0.19	0.14	ND	0.028	0.020	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.041	0.034	
100-41-4	Ethylbenzene	ND	0.94	0.30	ND	0.22	0.069	
179601-23-1	m,p-Xylenes	**0.68**	0.94	0.55	**0.16**	0.22	0.13	**J**
75-25-2	Bromoform	ND	0.94	0.28	ND	0.091	0.027	
100-42-5	Styrene	ND	0.94	0.28	ND	0.22	0.066	
95-47-6	o-Xylene	**0.29**	0.94	0.28	**0.068**	0.22	0.065	**J**
111-84-2	n-Nonane	**0.46**	0.94	0.28	**0.087**	0.18	0.054	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.027	0.023	
98-82-8	Cumene	**0.52**	0.94	0.28	**0.11**	0.19	0.057	**J**
80-56-8	alpha-Pinene	**0.55**	0.94	0.26	**0.099**	0.17	0.047	**J**
103-65-1	n-Propylbenzene	ND	0.94	0.30	ND	0.19	0.061	
622-96-8	4-Ethyltoluene	ND	0.94	0.30	ND	0.19	0.061	
108-67-8	1,3,5-Trimethylbenzene	ND	0.94	0.30	ND	0.19	0.061	
95-63-6	1,2,4-Trimethylbenzene	ND	0.94	0.28	ND	0.19	0.057	
100-44-7	Benzyl Chloride	ND	0.94	0.21	ND	0.18	0.040	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.17	ND	0.031	0.029	
5989-27-5	d-Limonene	**1.8**	0.94	0.26	**0.33**	0.17	0.047	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.94	0.19	ND	0.097	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	0.94	0.30	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.94	0.34	ND	0.18	0.065	
87-68-3	Hexachlorobutadiene	ND	0.94	0.26	ND	0.088	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-007

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/1/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/4/16
Analyst:	Wida Ang	Date Analyzed:	4/6/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00167		

Initial Pressure (psig): -4.91 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.88

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.94	Sulfur Dioxide	**>50**	**!**
4.50	Methyl Alcohol	**6.3**	
7.34	unknown	**5.4**	
14.18	Hexamethylcyclotrisiloxane	**25**	
17.27	unknown	**100**	
18.03	Acetophenone	**4.2**	
18.30	alpha-Cumyl Alcohol	**7.2**	
18.47	n-Nonanal	**4.1**	
19.89	Isothiocyanatocyclohexane	**8.7**	

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00176

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.08 Final Pressure (psig): 4.04

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**10**	1.1	0.30	**6.1**	0.63	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.1	0.37	**0.42**	0.22	0.075	
74-87-3	Chloromethane	**0.76**	0.43	0.30	**0.37**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.16	0.059	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.085	0.081	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.43	0.19	ND	0.16	0.072	
64-17-5	Ethanol	**370**	11	1.7	**200**	5.8	0.92	
75-05-8	Acetonitrile	**0.46**	1.1	0.39	**0.27**	0.65	0.23	**J**
107-02-8	Acrolein	**4.1**	4.3	0.37	**1.8**	1.9	0.16	**J**
67-64-1	Acetone	**140**	11	1.7	**58**	4.6	0.70	
75-69-4	Trichlorofluoromethane	**1.4**	0.22	0.12	**0.25**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**27**	11	0.91	**11**	4.4	0.37	
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**130**	1.1	0.37	**36**	0.31	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.16	ND	0.069	0.053	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.22	0.17	**0.066**	0.028	0.023	
75-15-0	Carbon Disulfide	**1.9**	11	0.33	**0.63**	3.5	0.10	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.054	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.056	
108-05-4	Vinyl Acetate	**5.8**	11	1.4	**1.6**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**65**	11	0.46	**22**	3.7	0.15	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00176

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.08 Final Pressure (psig): 4.04

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
141-78-6	Ethyl Acetate	**34**	2.2	0.76	**9.4**	0.60	0.21	
110-54-3	n-Hexane	**1.7**	1.1	0.33	**0.48**	0.31	0.092	
67-66-3	Chloroform	**1.2**	0.22	0.19	**0.24**	0.044	0.040	
109-99-9	Tetrahydrofuran (THF)	**27**	1.1	0.43	**9.3**	0.37	0.15	
107-06-2	1,2-Dichloroethane	**1.3**	0.22	0.13	**0.31**	0.054	0.033	
71-55-6	1,1,1-Trichloroethane	**0.30**	0.22	0.16	**0.054**	0.040	0.029	
71-43-2	Benzene	**1.5**	0.22	0.17	**0.45**	0.068	0.054	
56-23-5	Carbon Tetrachloride	**0.47**	0.22	0.19	**0.074**	0.035	0.030	
110-82-7	Cyclohexane	**1.5**	2.2	0.63	**0.44**	0.63	0.18	**J**
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	**0.37**	0.22	0.15	**0.055**	0.032	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.040	0.036	
123-91-1	1,4-Dioxane	**0.38**	1.1	0.35	**0.10**	0.30	0.096	**J**
80-62-6	Methyl Methacrylate	ND	2.2	0.67	ND	0.53	0.16	
142-82-5	n-Heptane	**1.7**	1.1	0.37	**0.41**	0.26	0.090	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.067	
108-10-1	4-Methyl-2-pentanone	**0.65**	1.1	0.35	**0.16**	0.26	0.085	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.077	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.040	0.032	
108-88-3	Toluene	**5.3**	1.1	0.37	**1.4**	0.29	0.098	
591-78-6	2-Hexanone	**0.62**	1.1	0.35	**0.15**	0.26	0.085	**J**
124-48-1	Dibromochloromethane	**0.38**	0.22	0.18	**0.045**	0.025	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	**7.0**	1.1	0.35	**1.5**	0.23	0.073	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P1601737-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00176

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.08 Final Pressure (psig): 4.04

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.1**	1.1	0.39	**0.23**	0.23	0.084	
127-18-4	Tetrachloroethene	**0.51**	0.22	0.16	**0.076**	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	**1.3**	1.1	0.35	**0.30**	0.25	0.080	
179601-23-1	m,p-Xylenes	**3.5**	1.1	0.63	**0.81**	0.25	0.14	
75-25-2	Bromoform	**0.42**	1.1	0.33	**0.041**	0.10	0.031	**J**
100-42-5	Styrene	**3.5**	1.1	0.33	**0.83**	0.25	0.076	
95-47-6	o-Xylene	**1.4**	1.1	0.33	**0.33**	0.25	0.075	
111-84-2	n-Nonane	**4.0**	1.1	0.33	**0.76**	0.21	0.062	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.032	0.027	
98-82-8	Cumene	**3.8**	1.1	0.33	**0.76**	0.22	0.066	
80-56-8	alpha-Pinene	**9.7**	1.1	0.30	**1.7**	0.19	0.055	
103-65-1	n-Propylbenzene	**0.53**	1.1	0.35	**0.11**	0.22	0.071	**J**
622-96-8	4-Ethyltoluene	**0.76**	1.1	0.35	**0.15**	0.22	0.071	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.85**	1.1	0.35	**0.17**	0.22	0.071	**J**
95-63-6	1,2,4-Trimethylbenzene	**3.2**	1.1	0.33	**0.65**	0.22	0.066	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	**0.68**	0.22	0.16	**0.11**	0.036	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.034	
5989-27-5	d-Limonene	**41**	1.1	0.30	**7.4**	0.19	0.055	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	**0.81**	1.1	0.39	**0.15**	0.21	0.075	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P1601737-008

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes: **T**

Container ID: CC00176

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.08 Final Pressure (psig): 4.04

Canister Dilution Factor: 2.17

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.35	Isobutane	**16**	
4.50	Methyl Alcohol	**36**	
4.70	n-Butane	**92**	
7.90	Trimethylsilanol	**11**	
12.19	Dimethyl disulfide	**15**	
14.18	Hexamethylcyclotrisiloxane	**21**	
15.32	Cyclohexanone	**15**	
17.06	alpha-Methylstyrene	**39**	
17.41	n-Decane	**10**	
17.72	p-Isopropyltoluene	**9.9**	
18.04	Acetophenone	**12**	
18.30	alpha-Cumyl Alcohol	**15**	
18.47	n-Nonanal	**13**	
18.61	n-Undecane	**12**	
19.12	unknown	**65**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P160406-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P160406-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P160406-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737

ALS Sample ID: P160406-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601737

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/1/16
Analyst: Wida Ang Date(s) Received: 4/4/16
Sample Type: Canister(s) Date(s) Analyzed: 4/6/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160406-MB	**100**	**99**	**102**	70-130	
	P160406-LCS	**99**	**97**	**104**	70-130	
	P1601737-001	**100**	**97**	**103**	70-130	
	P1601737-002	**100**	**97**	**104**	70-130	
	P1601737-003	**101**	**98**	**105**	70-130	
	P1601737-004	**100**	**96**	**105**	70-130	
	P1601737-005	**100**	**97**	**105**	70-130	
	P1601737-006	**100**	**96**	**105**	70-130	
	P1601737-007	**99**	**97**	**105**	70-130	
	P1601737-008	**99**	**96**	**105**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P160406-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**173**	**92**	65-117	
74-87-3	Chloromethane	200	**207**	**104**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**189**	**93**	65-122	
75-01-4	Vinyl Chloride	200	**217**	**109**	65-128	
106-99-0	1,3-Butadiene	206	**232**	**113**	62-143	
74-83-9	Bromomethane	202	**211**	**104**	65-130	
75-00-3	Chloroethane	200	**200**	**100**	69-126	
64-17-5	Ethanol	998	**945**	**95**	57-126	
75-05-8	Acetonitrile	212	**196**	**92**	51-134	
107-02-8	Acrolein	214	**205**	**96**	55-146	
67-64-1	Acetone	1,080	**938**	**87**	57-120	
75-69-4	Trichlorofluoromethane	216	**175**	**81**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**407**	**97**	59-129	
107-13-1	Acrylonitrile	212	**223**	**105**	64-136	
75-35-4	1,1-Dichloroethene	216	**219**	**101**	72-123	
75-09-2	Methylene Chloride	222	**195**	**88**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**243**	**111**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**205**	**93**	68-118	
75-15-0	Carbon Disulfide	210	**165**	**79**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**220**	**105**	69-129	
75-34-3	1,1-Dichloroethane	212	**202**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**204**	**94**	55-128	
108-05-4	Vinyl Acetate	1,040	**1160**	**112**	66-140	
78-93-3	2-Butanone (MEK)	220	**178**	**81**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P160406-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**221**	**101**	65-125	
141-78-6	Ethyl Acetate	428	**439**	**103**	64-132	
110-54-3	n-Hexane	212	**170**	**80**	58-126	
67-66-3	Chloroform	224	**208**	**93**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**222**	**101**	64-123	
107-06-2	1,2-Dichloroethane	214	**204**	**95**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**203**	**97**	68-120	
71-43-2	Benzene	226	**200**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**216**	**94**	65-137	
110-82-7	Cyclohexane	424	**386**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**222**	**102**	71-124	
79-01-6	Trichloroethene	216	**198**	**92**	71-121	
123-91-1	1,4-Dioxane	210	**233**	**111**	67-122	
80-62-6	Methyl Methacrylate	422	**415**	**98**	76-130	
142-82-5	n-Heptane	216	**196**	**91**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**215**	**103**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**222**	**101**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**225**	**107**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**213**	**99**	73-121	
108-88-3	Toluene	218	**165**	**76**	67-117	
591-78-6	2-Hexanone	220	**218**	**99**	59-128	
124-48-1	Dibromochloromethane	220	**230**	**105**	73-132	
106-93-4	1,2-Dibromoethane	218	**216**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**234**	**104**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601737
ALS Sample ID: P160406-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**192**	**91**	67-124	
127-18-4	Tetrachloroethene	202	**183**	**91**	65-126	
108-90-7	Chlorobenzene	220	**202**	**92**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**392**	**92**	67-125	
75-25-2	Bromoform	228	**231**	**101**	68-153	
100-42-5	Styrene	222	**227**	**102**	68-132	
95-47-6	o-Xylene	210	**193**	**92**	67-124	
111-84-2	n-Nonane	204	**192**	**94**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**204**	**97**	72-128	
98-82-8	Cumene	208	**191**	**92**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**191**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**198**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**197**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**205**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**255**	**116**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**211**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**200**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**208**	**95**	62-134	
5989-27-5	d-Limonene	210	**213**	**101**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**232**	**106**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**217**	**94**	60-145	
91-20-3	Naphthalene	218	**210**	**96**	56-158	
87-68-3	Hexachlorobutadiene	230	**201**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 8, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 4, 2016. For your reference, these analyses have been assigned our service request number P1601738.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 11:22 am, Apr 08, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601738
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Three of the four containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

---

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

2655 Park Center Dr., Suite A
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T: +1 805 526 7161
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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601738
Project ID: Aliso Canyon / 603287048

Date Received: 4/4/2016
Time Received: 09:27

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601738-001	Air	4/1/2016	08:46	CC00126	-0.10	3.73	X
	P1601738-002	Air	4/1/2016	09:40	AS00734	-3.92	3.86	X
	P1601738-003	Air	4/1/2016	11:02	CC00169	-2.82	3.88	X
	P1601738-004	Air	4/1/2016	11:04	CC00168	-4.18	3.88	X

P601734

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/1/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Jim Tang, Shannan Hill, Lucas Wallin, Robin Fornabaio
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Gauge ~~Flow Rate (L/min)~~ start ~~Pre~~	end ~~Post~~	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
89-SU-G	11	11	start -26	end	0858	8:46	1,428		#6L00446 eurofins gauge #20768, gauge at 0 before opening, main living area, kitchen
			Avg:						
91-SU	11	11	-28.5	-8.5	1002	9:40	1,418		SN#16960, gauge ATL#2125 counter placed on dining room table, gauge at 0 before opening
			Avg:						
25-SU	11	11	-28.5	-5	1110	11:02	1,432		Can#1348 gauge #FC#20064 kitchen island gauge at 0 before opening
			Avg:						
25-SUD (SUD)	11	11	-27.5	-8	1110	11:04	1,434		kitchen Island can #3177 gauge #2001 gauge at zero before opening
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Robin Fornabaio	Date: 4-2-16	Time: 2:58PM	Received by: [signature]	Date: 4/2/16	Time: 3:00 pm
Relinquished by: [signature] ~~for Carlos~~	Date: 4-2-16	Time: 4:00 pm	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 4-4-16	Time: 0820	Received by: [signature]	Date: 4/4/16	Time: 0820

[signature] 4/4/16 0927 [signature] 4/4/16 0927

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601738

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/4/16 Date opened: 4/4/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601738-001.01	Canister					
P1601738-002.01	6.0 L Silonite Can					
P1601738-003.01	Canister					
P1601738-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00126

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.10 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.7**	0.63	0.18	**2.1**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.63	0.21	**0.43**	0.13	0.043	
74-87-3	Chloromethane	**0.66**	0.25	0.18	**0.32**	0.12	0.085	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	0.24	ND	0.090	0.034	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.049	0.047	
106-99-0	1,3-Butadiene	ND	0.25	0.18	ND	0.11	0.080	
74-83-9	Bromomethane	ND	0.25	0.12	ND	0.065	0.030	
75-00-3	Chloroethane	ND	0.25	0.11	ND	0.096	0.042	
64-17-5	Ethanol	**65**	6.3	1.0	**34**	3.3	0.54	
75-05-8	Acetonitrile	**0.28**	0.63	0.23	**0.17**	0.38	0.14	**J**
107-02-8	Acrolein	**1.2**	2.5	0.21	**0.54**	1.1	0.093	**J**
67-64-1	Acetone	**22**	6.3	0.97	**9.3**	2.7	0.41	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.072	**0.20**	0.022	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.9**	6.3	0.53	**2.0**	2.6	0.22	**J**
107-13-1	Acrylonitrile	ND	0.63	0.21	ND	0.29	0.099	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**170**	0.63	0.21	**48**	0.18	0.062	**E**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.096	ND	0.040	0.031	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.13	0.10	**0.067**	0.016	0.013	
75-15-0	Carbon Disulfide	**0.21**	6.3	0.19	**0.067**	2.0	0.061	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.11	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.031	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.035	0.033	
108-05-4	Vinyl Acetate	**1.9**	6.3	0.82	**0.53**	1.8	0.23	**J**
78-93-3	2-Butanone (MEK)	**1.4**	6.3	0.26	**0.49**	2.1	0.090	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E = Estimated; concentration exceeded the calibration range.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P1601738-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00126

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.10 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
141-78-6	Ethyl Acetate	**4.8**	1.3	0.44	**1.3**	0.35	0.12	
110-54-3	n-Hexane	**0.46**	0.63	0.19	**0.13**	0.18	0.054	**J**
67-66-3	Chloroform	**0.18**	0.13	0.11	**0.038**	0.026	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.63	0.25	ND	0.21	0.085	
107-06-2	1,2-Dichloroethane	**0.50**	0.13	0.078	**0.12**	0.031	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.093	ND	0.023	0.017	
71-43-2	Benzene	**0.49**	0.13	0.10	**0.15**	0.039	0.031	
56-23-5	Carbon Tetrachloride	**0.47**	0.13	0.11	**0.075**	0.020	0.017	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.10	ND	0.027	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.086	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.023	0.021	
123-91-1	1,4-Dioxane	ND	0.63	0.20	ND	0.17	0.056	
80-62-6	Methyl Methacrylate	ND	1.3	0.39	ND	0.31	0.095	
142-82-5	n-Heptane	**0.27**	0.63	0.21	**0.065**	0.15	0.052	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	ND	0.63	0.20	ND	0.15	0.049	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	0.20	ND	0.14	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.018	
108-88-3	Toluene	**2.3**	0.63	0.21	**0.62**	0.17	0.057	
591-78-6	2-Hexanone	**0.21**	0.63	0.20	**0.051**	0.15	0.049	**J**
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.016	0.014	
123-86-4	n-Butyl Acetate	**7.2**	0.63	0.20	**1.5**	0.13	0.042	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00126

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.10 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.63	0.23	ND	0.13	0.049	
127-18-4	Tetrachloroethene	**0.12**	0.13	0.091	**0.017**	0.019	0.013	**J**
108-90-7	Chlorobenzene	ND	0.13	0.10	ND	0.027	0.023	
100-41-4	Ethylbenzene	**0.44**	0.63	0.20	**0.10**	0.15	0.046	**J**
179601-23-1	m,p-Xylenes	**1.2**	0.63	0.37	**0.29**	0.15	0.084	
75-25-2	Bromoform	ND	0.63	0.19	ND	0.061	0.018	
100-42-5	Styrene	**0.51**	0.63	0.19	**0.12**	0.15	0.044	**J**
95-47-6	o-Xylene	**0.49**	0.63	0.19	**0.11**	0.15	0.044	**J**
111-84-2	n-Nonane	ND	0.63	0.19	ND	0.12	0.036	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.018	0.015	
98-82-8	Cumene	ND	0.63	0.19	ND	0.13	0.038	
80-56-8	alpha-Pinene	**6.5**	0.63	0.18	**1.2**	0.11	0.032	
103-65-1	n-Propylbenzene	ND	0.63	0.20	ND	0.13	0.041	
622-96-8	4-Ethyltoluene	ND	0.63	0.20	ND	0.13	0.041	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	0.20	ND	0.13	0.041	
95-63-6	1,2,4-Trimethylbenzene	**0.21**	0.63	0.19	**0.043**	0.13	0.038	**J**
100-44-7	Benzyl Chloride	ND	0.63	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.093	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.096	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.019	
5989-27-5	d-Limonene	**4.4**	0.63	0.18	**0.78**	0.11	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	0.12	ND	0.065	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	0.20	ND	0.085	0.027	
91-20-3	Naphthalene	**0.24**	0.63	0.23	**0.045**	0.12	0.043	**J**
87-68-3	Hexachlorobutadiene	ND	0.63	0.18	ND	0.059	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00734

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16 & 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.92 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.72

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**5.8**	0.86	0.24	**3.4**	0.50	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.86	0.29	**0.43**	0.17	0.059	
74-87-3	Chloromethane	**0.91**	0.34	0.24	**0.44**	0.17	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.86	0.33	ND	0.12	0.047	
75-01-4	Vinyl Chloride	ND	0.17	0.16	ND	0.067	0.064	
106-99-0	1,3-Butadiene	ND	0.34	0.24	ND	0.16	0.11	
74-83-9	Bromomethane	ND	0.34	0.16	ND	0.089	0.041	
75-00-3	Chloroethane	ND	0.34	0.15	ND	0.13	0.057	
64-17-5	Ethanol	**2,000**	86	14	**1,100**	46	7.3	**D**
75-05-8	Acetonitrile	**0.44**	0.86	0.31	**0.26**	0.51	0.18	**J**
107-02-8	Acrolein	**2.0**	3.4	0.29	**0.89**	1.5	0.13	**J**
67-64-1	Acetone	**180**	8.6	1.3	**75**	3.6	0.56	
75-69-4	Trichlorofluoromethane	**1.2**	0.17	0.098	**0.21**	0.031	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	**9.2**	8.6	0.72	**3.8**	3.5	0.29	
107-13-1	Acrylonitrile	ND	0.86	0.29	ND	0.40	0.13	
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.043	0.040	
75-09-2	Methylene Chloride	**84**	0.86	0.29	**24**	0.25	0.084	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.055	0.042	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.17	0.14	**0.068**	0.022	0.018	
75-15-0	Carbon Disulfide	**1.1**	8.6	0.26	**0.36**	2.8	0.083	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.16	ND	0.043	0.039	
75-34-3	1,1-Dichloroethane	ND	0.17	0.14	ND	0.043	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.048	0.044	
108-05-4	Vinyl Acetate	**8.0**	8.6	1.1	**2.3**	2.4	0.32	**J**
78-93-3	2-Butanone (MEK)	**27**	8.6	0.36	**9.1**	2.9	0.12	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00734

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16 & 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.92 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.72

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.16	ND	0.043	0.040	
141-78-6	Ethyl Acetate	**21**	1.7	0.60	**5.8**	0.48	0.17	
110-54-3	n-Hexane	**2.0**	0.86	0.26	**0.58**	0.24	0.073	
67-66-3	Chloroform	**0.28**	0.17	0.15	**0.058**	0.035	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.86	0.34	ND	0.29	0.12	
107-06-2	1,2-Dichloroethane	**0.12**	0.17	0.11	**0.029**	0.043	0.026	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.13	ND	0.032	0.023	
71-43-2	Benzene	**29**	0.17	0.14	**9.2**	0.054	0.043	
56-23-5	Carbon Tetrachloride	**0.50**	0.17	0.15	**0.080**	0.027	0.024	
110-82-7	Cyclohexane	ND	1.7	0.50	ND	0.50	0.14	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.037	0.031	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.017	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.032	0.028	
123-91-1	1,4-Dioxane	ND	0.86	0.28	ND	0.24	0.076	
80-62-6	Methyl Methacrylate	ND	1.7	0.53	ND	0.42	0.13	
142-82-5	n-Heptane	**2.4**	0.86	0.29	**0.58**	0.21	0.071	
10061-01-5	cis-1,3-Dichloropropene	ND	0.86	0.24	ND	0.19	0.053	
108-10-1	4-Methyl-2-pentanone	**0.82**	0.86	0.28	**0.20**	0.21	0.067	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.28	ND	0.19	0.061	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.14	ND	0.032	0.025	
108-88-3	Toluene	**3.9**	0.86	0.29	**1.0**	0.23	0.078	
591-78-6	2-Hexanone	ND	0.86	0.28	ND	0.21	0.067	
124-48-1	Dibromochloromethane	**0.30**	0.17	0.15	**0.035**	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.15	ND	0.022	0.019	
123-86-4	n-Butyl Acetate	**9.4**	0.86	0.28	**2.0**	0.18	0.058	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00734

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16 & 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.92 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.72

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.53**	0.86	0.31	**0.11**	0.18	0.066	**J**
127-18-4	Tetrachloroethene	ND	0.17	0.12	ND	0.025	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.037	0.031	
100-41-4	Ethylbenzene	**1.1**	0.86	0.28	**0.25**	0.20	0.063	
179601-23-1	m,p-Xylenes	**2.2**	0.86	0.50	**0.50**	0.20	0.11	
75-25-2	Bromoform	**0.35**	0.86	0.26	**0.034**	0.083	0.025	**J**
100-42-5	Styrene	**0.88**	0.86	0.26	**0.21**	0.20	0.061	
95-47-6	o-Xylene	**0.86**	0.86	0.26	**0.20**	0.20	0.059	**J**
111-84-2	n-Nonane	**0.43**	0.86	0.26	**0.082**	0.16	0.049	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.14	ND	0.025	0.021	
98-82-8	Cumene	**860**	8.6	2.6	**180**	1.8	0.53	**D**
80-56-8	alpha-Pinene	**10**	0.86	0.24	**1.9**	0.15	0.043	
103-65-1	n-Propylbenzene	**0.63**	0.86	0.28	**0.13**	0.18	0.056	**J**
622-96-8	4-Ethyltoluene	ND	0.86	0.28	ND	0.18	0.056	
108-67-8	1,3,5-Trimethylbenzene	ND	0.86	0.28	ND	0.18	0.056	
95-63-6	1,2,4-Trimethylbenzene	**0.57**	0.86	0.26	**0.12**	0.18	0.053	**J**
100-44-7	Benzyl Chloride	ND	0.86	0.19	ND	0.17	0.037	
541-73-1	1,3-Dichlorobenzene	**0.14**	0.17	0.13	**0.024**	0.029	0.021	**J**
106-46-7	1,4-Dichlorobenzene	**0.14**	0.17	0.13	**0.023**	0.029	0.022	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.029	0.027	
5989-27-5	d-Limonene	**14**	0.86	0.24	**2.5**	0.15	0.043	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.86	0.17	ND	0.089	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	0.86	0.28	ND	0.12	0.037	
91-20-3	Naphthalene	ND	0.86	0.31	ND	0.16	0.059	
87-68-3	Hexachlorobutadiene	ND	0.86	0.24	ND	0.081	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00169

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16 & 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.82 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**7.8**	0.78	0.22	**4.5**	0.45	0.13	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.78	0.27	**0.44**	0.16	0.054	
74-87-3	Chloromethane	**0.60**	0.31	0.22	**0.29**	0.15	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.78	0.30	ND	0.11	0.042	
75-01-4	Vinyl Chloride	ND	0.16	0.15	ND	0.061	0.058	
106-99-0	1,3-Butadiene	ND	0.31	0.22	ND	0.14	0.099	
74-83-9	Bromomethane	ND	0.31	0.15	ND	0.080	0.037	
75-00-3	Chloroethane	ND	0.31	0.14	ND	0.12	0.051	
64-17-5	Ethanol	**94**	7.8	1.2	**50**	4.1	0.66	
75-05-8	Acetonitrile	ND	0.78	0.28	ND	0.46	0.17	
107-02-8	Acrolein	**2.2**	3.1	0.27	**0.94**	1.4	0.12	**J**
67-64-1	Acetone	**45**	7.8	1.2	**19**	3.3	0.51	
75-69-4	Trichlorofluoromethane	**1.2**	0.16	0.089	**0.21**	0.028	0.016	
67-63-0	2-Propanol (Isopropyl Alcohol)	**9.4**	7.8	0.66	**3.8**	3.2	0.27	
107-13-1	Acrylonitrile	ND	0.78	0.27	ND	0.36	0.12	
75-35-4	1,1-Dichloroethene	ND	0.16	0.15	ND	0.039	0.037	
75-09-2	Methylene Chloride	**33**	0.78	0.27	**9.5**	0.22	0.076	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.12	ND	0.050	0.038	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.16	0.12	**0.070**	0.020	0.016	
75-15-0	Carbon Disulfide	**1.6**	7.8	0.23	**0.50**	2.5	0.075	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.14	ND	0.039	0.036	
75-34-3	1,1-Dichloroethane	ND	0.16	0.12	ND	0.039	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.15	ND	0.043	0.040	
108-05-4	Vinyl Acetate	**2.3**	7.8	1.0	**0.65**	2.2	0.29	**J**
78-93-3	2-Butanone (MEK)	**3.0**	7.8	0.33	**1.0**	2.6	0.11	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P1601738-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00169

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/5/16 & 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.82 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.14	ND	0.039	0.036	
141-78-6	Ethyl Acetate	**2.3**	1.6	0.55	**0.65**	0.43	0.15	
110-54-3	n-Hexane	**1.7**	0.78	0.23	**0.48**	0.22	0.066	
67-66-3	Chloroform	**0.78**	0.16	0.14	**0.16**	0.032	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	0.78	0.31	ND	0.26	0.11	
107-06-2	1,2-Dichloroethane	**0.28**	0.16	0.097	**0.069**	0.039	0.024	
71-55-6	1,1,1-Trichloroethane	**0.13**	0.16	0.12	**0.024**	0.029	0.021	**J**
71-43-2	Benzene	**4.0**	0.16	0.12	**1.3**	0.049	0.039	
56-23-5	Carbon Tetrachloride	**0.58**	0.16	0.13	**0.092**	0.025	0.021	
110-82-7	Cyclohexane	**0.67**	1.6	0.45	**0.19**	0.45	0.13	**J**
78-87-5	1,2-Dichloropropane	ND	0.16	0.13	ND	0.034	0.028	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	**0.59**	0.16	0.14	**0.11**	0.029	0.026	
123-91-1	1,4-Dioxane	ND	0.78	0.25	ND	0.22	0.069	
80-62-6	Methyl Methacrylate	ND	1.6	0.48	ND	0.38	0.12	
142-82-5	n-Heptane	**1.5**	0.78	0.27	**0.36**	0.19	0.065	
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	0.22	ND	0.17	0.048	
108-10-1	4-Methyl-2-pentanone	**0.54**	0.78	0.25	**0.13**	0.19	0.061	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.78	0.25	ND	0.17	0.055	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.12	ND	0.029	0.023	
108-88-3	Toluene	**9.1**	0.78	0.27	**2.4**	0.21	0.070	
591-78-6	2-Hexanone	ND	0.78	0.25	ND	0.19	0.061	
124-48-1	Dibromochloromethane	ND	0.16	0.13	ND	0.018	0.016	
106-93-4	1,2-Dibromoethane	ND	0.16	0.13	ND	0.020	0.017	
123-86-4	n-Butyl Acetate	**1.1**	0.78	0.25	**0.23**	0.16	0.053	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00169

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16 & 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.82 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.60**	0.78	0.28	**0.13**	0.17	0.060	**J**
127-18-4	Tetrachloroethene	ND	0.16	0.11	ND	0.023	0.017	
108-90-7	Chlorobenzene	ND	0.16	0.13	ND	0.034	0.028	
100-41-4	Ethylbenzene	**1.5**	0.78	0.25	**0.35**	0.18	0.057	
179601-23-1	m,p-Xylenes	**5.0**	0.78	0.45	**1.1**	0.18	0.10	
75-25-2	Bromoform	ND	0.78	0.23	ND	0.075	0.023	
100-42-5	Styrene	ND	0.78	0.23	ND	0.18	0.055	
95-47-6	o-Xylene	**1.8**	0.78	0.23	**0.40**	0.18	0.054	
111-84-2	n-Nonane	**0.44**	0.78	0.23	**0.084**	0.15	0.045	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.13	ND	0.023	0.019	
98-82-8	Cumene	**370**	7.8	2.3	**74**	1.6	0.48	**D**
80-56-8	alpha-Pinene	**1.4**	0.78	0.22	**0.26**	0.14	0.039	
103-65-1	n-Propylbenzene	**0.48**	0.78	0.25	**0.098**	0.16	0.051	**J**
622-96-8	4-Ethyltoluene	**0.41**	0.78	0.25	**0.083**	0.16	0.051	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.33**	0.78	0.25	**0.067**	0.16	0.051	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.3**	0.78	0.23	**0.26**	0.16	0.048	
100-44-7	Benzyl Chloride	ND	0.78	0.17	ND	0.15	0.033	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.12	ND	0.026	0.019	
106-46-7	1,4-Dichlorobenzene	**0.49**	0.16	0.12	**0.082**	0.026	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.15	ND	0.026	0.024	
5989-27-5	d-Limonene	**1.4**	0.78	0.22	**0.26**	0.14	0.039	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.78	0.15	ND	0.081	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	0.78	0.25	ND	0.11	0.034	
91-20-3	Naphthalene	ND	0.78	0.28	ND	0.15	0.054	
87-68-3	Hexachlorobutadiene	ND	0.78	0.22	ND	0.073	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P1601738-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00168

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.18 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.77

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**7.5**	0.89	0.25	**4.4**	0.51	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.89	0.30	**0.44**	0.18	0.061	
74-87-3	Chloromethane	**0.59**	0.35	0.25	**0.28**	0.17	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.89	0.34	ND	0.13	0.048	
75-01-4	Vinyl Chloride	ND	0.18	0.17	ND	0.069	0.066	
106-99-0	1,3-Butadiene	ND	0.35	0.25	ND	0.16	0.11	
74-83-9	Bromomethane	ND	0.35	0.16	ND	0.091	0.042	
75-00-3	Chloroethane	ND	0.35	0.15	ND	0.13	0.058	
64-17-5	Ethanol	**89**	8.9	1.4	**47**	4.7	0.75	
75-05-8	Acetonitrile	ND	0.89	0.32	ND	0.53	0.19	
107-02-8	Acrolein	**1.8**	3.5	0.30	**0.79**	1.5	0.13	**J**
67-64-1	Acetone	**42**	8.9	1.4	**18**	3.7	0.57	
75-69-4	Trichlorofluoromethane	**1.1**	0.18	0.10	**0.20**	0.032	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	**11**	8.9	0.74	**4.4**	3.6	0.30	
107-13-1	Acrylonitrile	ND	0.89	0.30	ND	0.41	0.14	
75-35-4	1,1-Dichloroethene	ND	0.18	0.16	ND	0.045	0.042	
75-09-2	Methylene Chloride	**39**	0.89	0.30	**11**	0.25	0.087	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	0.13	ND	0.057	0.043	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.18	0.14	**0.067**	0.023	0.018	
75-15-0	Carbon Disulfide	**0.43**	8.9	0.27	**0.14**	2.8	0.085	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.16	ND	0.045	0.041	
75-34-3	1,1-Dichloroethane	ND	0.18	0.14	ND	0.044	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	0.16	ND	0.049	0.046	
108-05-4	Vinyl Acetate	**2.1**	8.9	1.2	**0.59**	2.5	0.33	**J**
78-93-3	2-Butanone (MEK)	**1.9**	8.9	0.37	**0.64**	3.0	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P1601738-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00168

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.18 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.77

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.16	ND	0.045	0.041	
141-78-6	Ethyl Acetate	**7.2**	1.8	0.62	**2.0**	0.49	0.17	
110-54-3	n-Hexane	**1.8**	0.89	0.27	**0.51**	0.25	0.075	
67-66-3	Chloroform	**0.76**	0.18	0.16	**0.16**	0.036	0.032	
109-99-9	Tetrahydrofuran (THF)	ND	0.89	0.35	ND	0.30	0.12	
107-06-2	1,2-Dichloroethane	**0.27**	0.18	0.11	**0.068**	0.044	0.027	
71-55-6	1,1,1-Trichloroethane	**0.13**	0.18	0.13	**0.024**	0.032	0.024	**J**
71-43-2	Benzene	**2.1**	0.18	0.14	**0.66**	0.055	0.044	
56-23-5	Carbon Tetrachloride	**0.57**	0.18	0.15	**0.091**	0.028	0.024	
110-82-7	Cyclohexane	**0.68**	1.8	0.51	**0.20**	0.51	0.15	**J**
78-87-5	1,2-Dichloropropane	ND	0.18	0.15	ND	0.038	0.032	
75-27-4	Bromodichloromethane	ND	0.18	0.12	ND	0.026	0.018	
79-01-6	Trichloroethene	**0.58**	0.18	0.16	**0.11**	0.033	0.029	
123-91-1	1,4-Dioxane	ND	0.89	0.28	ND	0.25	0.079	
80-62-6	Methyl Methacrylate	ND	1.8	0.55	ND	0.43	0.13	
142-82-5	n-Heptane	**1.5**	0.89	0.30	**0.37**	0.22	0.073	
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	0.25	ND	0.20	0.055	
108-10-1	4-Methyl-2-pentanone	**0.50**	0.89	0.28	**0.12**	0.22	0.069	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	0.28	ND	0.20	0.062	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.14	ND	0.032	0.026	
108-88-3	Toluene	**9.3**	0.89	0.30	**2.5**	0.23	0.080	
591-78-6	2-Hexanone	ND	0.89	0.28	ND	0.22	0.069	
124-48-1	Dibromochloromethane	ND	0.18	0.15	ND	0.021	0.018	
106-93-4	1,2-Dibromoethane	ND	0.18	0.15	ND	0.023	0.020	
123-86-4	n-Butyl Acetate	**1.0**	0.89	0.28	**0.22**	0.19	0.060	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P1601738-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00168

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.18 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.77

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.56**	0.89	0.32	**0.12**	0.19	0.068	**J**
127-18-4	Tetrachloroethene	ND	0.18	0.13	ND	0.026	0.019	
108-90-7	Chlorobenzene	ND	0.18	0.15	ND	0.038	0.032	
100-41-4	Ethylbenzene	**1.3**	0.89	0.28	**0.31**	0.20	0.065	
179601-23-1	m,p-Xylenes	**4.8**	0.89	0.51	**1.1**	0.20	0.12	
75-25-2	Bromoform	ND	0.89	0.27	ND	0.086	0.026	
100-42-5	Styrene	ND	0.89	0.27	ND	0.21	0.062	
95-47-6	o-Xylene	**1.6**	0.89	0.27	**0.37**	0.20	0.061	
111-84-2	n-Nonane	**0.39**	0.89	0.27	**0.074**	0.17	0.051	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.15	ND	0.026	0.022	
98-82-8	Cumene	ND	0.89	0.27	ND	0.18	0.054	
80-56-8	alpha-Pinene	**1.4**	0.89	0.25	**0.25**	0.16	0.044	
103-65-1	n-Propylbenzene	ND	0.89	0.28	ND	0.18	0.058	
622-96-8	4-Ethyltoluene	**0.39**	0.89	0.28	**0.080**	0.18	0.058	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.33**	0.89	0.28	**0.067**	0.18	0.058	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.2**	0.89	0.27	**0.24**	0.18	0.054	
100-44-7	Benzyl Chloride	ND	0.89	0.19	ND	0.17	0.038	
541-73-1	1,3-Dichlorobenzene	ND	0.18	0.13	ND	0.029	0.022	
106-46-7	1,4-Dichlorobenzene	**0.49**	0.18	0.13	**0.081**	0.029	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.18	0.16	ND	0.029	0.027	
5989-27-5	d-Limonene	**1.3**	0.89	0.25	**0.24**	0.16	0.044	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.89	0.18	ND	0.092	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	0.89	0.28	ND	0.12	0.038	
91-20-3	Naphthalene	ND	0.89	0.32	ND	0.17	0.061	
87-68-3	Hexachlorobutadiene	ND	0.89	0.25	ND	0.083	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P160405-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P160405-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P160407-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.17**	0.50	0.17	**0.049**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P160407-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P160407-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601738

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/1/16
Analyst: Wida Ang Date(s) Received: 4/4/16
Sample Type: Canister(s) Date(s) Analyzed: 4/5 - 4/7/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160405-MB	**102**	**98**	**102**	70-130	
P160407-MB	**102**	**98**	**103**	70-130	
P160405-LCS	**99**	**93**	**104**	70-130	
P160407-LCS	**100**	**96**	**103**	70-130	
P1601738-001	**101**	**97**	**104**	70-130	
P1601738-002	**102**	**95**	**104**	70-130	
P1601738-003	**102**	**95**	**104**	70-130	
P1601738-004	**101**	**97**	**104**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**182**	**93**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**177**	**94**	65-117	
74-87-3	Chloromethane	200	**225**	**113**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**190**	**93**	65-122	
75-01-4	Vinyl Chloride	200	**218**	**109**	65-128	
106-99-0	1,3-Butadiene	206	**224**	**109**	62-143	
74-83-9	Bromomethane	202	**212**	**105**	65-130	
75-00-3	Chloroethane	200	**204**	**102**	69-126	
64-17-5	Ethanol	998	**982**	**98**	57-126	
75-05-8	Acetonitrile	212	**200**	**94**	51-134	
107-02-8	Acrolein	214	**209**	**98**	55-146	
67-64-1	Acetone	1,080	**949**	**88**	57-120	
75-69-4	Trichlorofluoromethane	216	**178**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**419**	**100**	59-129	
107-13-1	Acrylonitrile	212	**227**	**107**	64-136	
75-35-4	1,1-Dichloroethene	216	**220**	**102**	72-123	
75-09-2	Methylene Chloride	222	**197**	**89**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**247**	**113**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**207**	**94**	68-118	
75-15-0	Carbon Disulfide	210	**167**	**80**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**222**	**106**	69-129	
75-34-3	1,1-Dichloroethane	212	**202**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**206**	**95**	55-128	
108-05-4	Vinyl Acetate	1,040	**1140**	**110**	66-140	
78-93-3	2-Butanone (MEK)	220	**177**	**80**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P160405-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/5/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**223**	**102**	65-125	
141-78-6	Ethyl Acetate	428	**434**	**101**	64-132	
110-54-3	n-Hexane	212	**164**	**77**	58-126	
67-66-3	Chloroform	224	**209**	**93**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**221**	**100**	64-123	
107-06-2	1,2-Dichloroethane	214	**206**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**216**	**103**	68-120	
71-43-2	Benzene	226	**206**	**91**	61-110	
56-23-5	Carbon Tetrachloride	230	**228**	**99**	65-137	
110-82-7	Cyclohexane	424	**405**	**96**	68-122	
78-87-5	1,2-Dichloropropane	216	**213**	**99**	67-122	
75-27-4	Bromodichloromethane	218	**234**	**107**	71-124	
79-01-6	Trichloroethene	216	**203**	**94**	71-121	
123-91-1	1,4-Dioxane	210	**243**	**116**	67-122	
80-62-6	Methyl Methacrylate	422	**427**	**101**	76-130	
142-82-5	n-Heptane	216	**199**	**92**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**223**	**107**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**235**	**107**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**238**	**113**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**225**	**104**	73-121	
108-88-3	Toluene	218	**164**	**75**	67-117	
591-78-6	2-Hexanone	220	**220**	**100**	59-128	
124-48-1	Dibromochloromethane	220	**231**	**105**	73-132	
106-93-4	1,2-Dibromoethane	218	**217**	**100**	73-128	
123-86-4	n-Butyl Acetate	226	**238**	**105**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P160405-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/5/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**190**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**200**	**91**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**394**	**92**	67-125	
75-25-2	Bromoform	228	**233**	**102**	68-153	
100-42-5	Styrene	222	**228**	**103**	68-132	
95-47-6	o-Xylene	210	**195**	**93**	67-124	
111-84-2	n-Nonane	204	**196**	**96**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**206**	**98**	72-128	
98-82-8	Cumene	208	**192**	**92**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**192**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**200**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**198**	**93**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**206**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**257**	**117**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**213**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**199**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**210**	**95**	62-134	
5989-27-5	d-Limonene	210	**217**	**103**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**235**	**108**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**221**	**96**	60-145	
91-20-3	Naphthalene	218	**215**	**99**	56-158	
87-68-3	Hexachlorobutadiene	230	**205**	**89**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**174**	**93**	65-117	
74-87-3	Chloromethane	200	**217**	**109**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**185**	**91**	65-122	
75-01-4	Vinyl Chloride	200	**212**	**106**	65-128	
106-99-0	1,3-Butadiene	206	**222**	**108**	62-143	
74-83-9	Bromomethane	202	**208**	**103**	65-130	
75-00-3	Chloroethane	200	**197**	**99**	69-126	
64-17-5	Ethanol	998	**937**	**94**	57-126	
75-05-8	Acetonitrile	212	**194**	**92**	51-134	
107-02-8	Acrolein	214	**199**	**93**	55-146	
67-64-1	Acetone	1,080	**924**	**86**	57-120	
75-69-4	Trichlorofluoromethane	216	**177**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**406**	**97**	59-129	
107-13-1	Acrylonitrile	212	**222**	**105**	64-136	
75-35-4	1,1-Dichloroethene	216	**215**	**100**	72-123	
75-09-2	Methylene Chloride	222	**190**	**86**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**240**	**110**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**203**	**92**	68-118	
75-15-0	Carbon Disulfide	210	**162**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**219**	**104**	69-129	
75-34-3	1,1-Dichloroethane	212	**201**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**204**	**94**	55-128	
108-05-4	Vinyl Acetate	1,040	**1160**	**112**	66-140	
78-93-3	2-Butanone (MEK)	220	**177**	**80**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738

ALS Sample ID: P160407-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**219**	**100**	65-125	
141-78-6	Ethyl Acetate	428	**442**	**103**	64-132	
110-54-3	n-Hexane	212	**174**	**82**	58-126	
67-66-3	Chloroform	224	**206**	**92**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**220**	**100**	64-123	
107-06-2	1,2-Dichloroethane	214	**205**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**208**	**99**	68-120	
71-43-2	Benzene	226	**202**	**89**	61-110	
56-23-5	Carbon Tetrachloride	230	**221**	**96**	65-137	
110-82-7	Cyclohexane	424	**390**	**92**	68-122	
78-87-5	1,2-Dichloropropane	216	**209**	**97**	67-122	
75-27-4	Bromodichloromethane	218	**226**	**104**	71-124	
79-01-6	Trichloroethene	216	**199**	**92**	71-121	
123-91-1	1,4-Dioxane	210	**233**	**111**	67-122	
80-62-6	Methyl Methacrylate	422	**416**	**99**	76-130	
142-82-5	n-Heptane	216	**200**	**93**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**217**	**104**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**223**	**101**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**228**	**109**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**215**	**100**	73-121	
108-88-3	Toluene	218	**163**	**75**	67-117	
591-78-6	2-Hexanone	220	**216**	**98**	59-128	
124-48-1	Dibromochloromethane	220	**229**	**104**	73-132	
106-93-4	1,2-Dibromoethane	218	**216**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**233**	**103**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601738
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**191**	**91**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**199**	**90**	68-120	
100-41-4	Ethylbenzene	218	**201**	**92**	69-123	
179601-23-1	m,p-Xylenes	428	**389**	**91**	67-125	
75-25-2	Bromoform	228	**230**	**101**	68-153	
100-42-5	Styrene	222	**224**	**101**	68-132	
95-47-6	o-Xylene	210	**193**	**92**	67-124	
111-84-2	n-Nonane	204	**194**	**95**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**204**	**97**	72-128	
98-82-8	Cumene	208	**189**	**91**	67-124	
80-56-8	alpha-Pinene	212	**199**	**94**	67-129	
103-65-1	n-Propylbenzene	204	**190**	**93**	67-125	
622-96-8	4-Ethyltoluene	214	**202**	**94**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**196**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**204**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**252**	**115**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**209**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**196**	**94**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**205**	**93**	62-134	
5989-27-5	d-Limonene	210	**211**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**230**	**106**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**215**	**93**	60-145	
91-20-3	Naphthalene	218	**208**	**95**	56-158	
87-68-3	Hexachlorobutadiene	230	**201**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 8, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 4, 2016. For your reference, these analyses have been assigned our service request number P1601740.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 2:49 pm, Apr 08, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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Client: Leighton Consulting, Inc. Service Request No: P1601740
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

The analysis for sample 25-SU-EXT (P2601740-001) was cancelled because the valve was found to be leaking.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Two of the four containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high

---

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

2655 Park Center Dr., Suite A
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F: +1 805 526 7270
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601740
Project ID: Aliso Canyon / 603287048

Date Received: 4/4/2016
Time Received: 09:27

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601740-002	Air	4/1/2016	11:37	AC00614	-0.52	3.63	X
	P1601740-003	Air	4/1/2016	13:18	CC00165	-5.58	3.64	X
	P1601740-004	Air	4/1/2016	14:05	CC00164	-5.03	3.85	X

P1601740

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Jim Tang/Emmanuel Hill, Lucas Walker, Robin Fonalont	
	Rotameter: Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Gauge Flow Rate (L/min) Start Pre	Gauge Flow Rate (L/min) end Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	Avg:						
25-SU-EXT	11	11	-28	-8.75	1112	1307	1,435		patio table, can # 16797 gauge #SN7172207; gauge at -12 before opening
			Avg:						
04-SU	11	11	-30	-7	1149	1137	1,428		living room, can # 02035 gauge # 20761, gauge before opening at -7
			Avg:						
97-SU	11	11	-29.5	-11.5	1339	13:18	1,419		Bedroom, can #3636 gauge # SN7171864, gauge at zero before open
			Avg:						
17-SU	11	11	-29	-10.5	1424	1405	1,421		kitchen, can #1439 gauge #SN7165084, gauge at zero before open
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

ALS Life Sciences Division | Environmental
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Relinquished by: Robin Fonalont	Date: 4-2-16	Time: 2:58 PM	Received by: [illegible]	Date: 4/2/16	Time: 3:00
Relinquished by: [illegible]	Date: 4-4-16	Time: 0820	Received by: [illegible]	Date: 4/4/16	Time: 0820
Relinquished by: [illegible]	Date: 4/4/16	Time: 0927	Received by: [illegible]	Date: 4/4/16	Time: 0927

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601740

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/4/16 Date opened: 4/4/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601740-001.01	6.0 L Silonite Can					
P1601740-002.01	6.0 L Ambient Can					
P1601740-003.01	Canister					
P1601740-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00614

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.52 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.65	0.18	ND	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.65	0.22	**0.45**	0.13	0.044	
74-87-3	Chloromethane	**0.68**	0.26	0.18	**0.33**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	0.25	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.082	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.098	0.043	
64-17-5	Ethanol	**120**	6.5	1.0	**64**	3.4	0.55	
75-05-8	Acetonitrile	**0.26**	0.65	0.23	**0.16**	0.38	0.14	**J**
107-02-8	Acrolein	**1.7**	2.6	0.22	**0.72**	1.1	0.096	**J**
67-64-1	Acetone	**24**	6.5	0.99	**10**	2.7	0.42	
75-69-4	Trichlorofluoromethane	**1.2**	0.13	0.074	**0.21**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.2**	6.5	0.54	**1.3**	2.6	0.22	**J**
107-13-1	Acrylonitrile	ND	0.65	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-09-2	Methylene Chloride	**210**	0.65	0.22	**62**	0.19	0.063	**E**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.098	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.13	0.10	**0.063**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.5	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	**1.9**	6.5	0.84	**0.53**	1.8	0.24	**J**
78-93-3	2-Butanone (MEK)	**1.1**	6.5	0.27	**0.38**	2.2	0.092	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E = Estimated; concentration exceeded calibration range.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00614

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.52 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	**6.9**	1.3	0.45	**1.9**	0.36	0.13	
110-54-3	n-Hexane	**0.33**	0.65	0.19	**0.095**	0.18	0.055	**J**
67-66-3	Chloroform	**0.20**	0.13	0.11	**0.041**	0.026	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	0.26	ND	0.22	0.088	
107-06-2	1,2-Dichloroethane	**0.22**	0.13	0.080	**0.053**	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.024	0.018	
71-43-2	Benzene	**0.50**	0.13	0.10	**0.16**	0.040	0.032	
56-23-5	Carbon Tetrachloride	**0.42**	0.13	0.11	**0.067**	0.021	0.018	
110-82-7	Cyclohexane	**0.40**	1.3	0.37	**0.12**	0.37	0.11	**J**
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.088	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.65	0.21	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.32	0.098	
142-82-5	n-Heptane	ND	0.65	0.22	ND	0.16	0.054	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	ND	0.65	0.21	ND	0.16	0.050	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	0.21	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	**1.0**	0.65	0.22	**0.27**	0.17	0.058	
591-78-6	2-Hexanone	ND	0.65	0.21	ND	0.16	0.050	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**0.23**	0.65	0.21	**0.049**	0.14	0.043	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC00614

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.52 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.65	0.23	ND	0.14	0.050	
127-18-4	Tetrachloroethene	ND	0.13	0.093	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	ND	0.65	0.21	ND	0.15	0.048	
179601-23-1	m,p-Xylenes	**0.51**	0.65	0.37	**0.12**	0.15	0.086	**J**
75-25-2	Bromoform	ND	0.65	0.19	ND	0.062	0.019	
100-42-5	Styrene	ND	0.65	0.19	ND	0.15	0.045	
95-47-6	o-Xylene	**0.19**	0.65	0.19	**0.045**	0.15	0.045	**J**
111-84-2	n-Nonane	ND	0.65	0.19	ND	0.12	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.65	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**0.53**	0.65	0.18	**0.094**	0.12	0.032	**J**
103-65-1	n-Propylbenzene	ND	0.65	0.21	ND	0.13	0.042	
622-96-8	4-Ethyltoluene	ND	0.65	0.21	ND	0.13	0.042	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	0.21	ND	0.13	0.042	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	0.19	ND	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.65	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.098	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**2.7**	0.65	0.18	**0.49**	0.12	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	0.13	ND	0.067	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	0.21	ND	0.087	0.028	
91-20-3	Naphthalene	ND	0.65	0.23	ND	0.12	0.044	
87-68-3	Hexachlorobutadiene	ND	0.65	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/1/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/4/16
Analyst:	Wida Ang	Date Analyzed:	4/6/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AC00614		

Initial Pressure (psig): -0.52 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.29

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.87	1,1-Difluoroethane	**2,100**	
4.42	Acetaldehyde	**4.1**	
4.50	Methyl Alcohol	**12**	
4.70	n-Butane	**3.5**	
6.51	Isoprene	**3.6**	
7.35	unknown	**2.5**	
14.19	Hexamethylcyclotrisiloxane	**13**	
17.59	2-Ethyl-1-hexanol	**3.0**	
18.47	n-Nonanal	**3.0**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00165

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.8**	1.0	0.28	**1.7**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.0	0.34	**0.44**	0.20	0.069	
74-87-3	Chloromethane	**0.63**	0.40	0.28	**0.31**	0.19	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.079	0.075	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.066	
64-17-5	Ethanol	**280**	10	1.6	**150**	5.3	0.85	
75-05-8	Acetonitrile	**0.47**	1.0	0.36	**0.28**	0.60	0.22	**J**
107-02-8	Acrolein	**2.0**	4.0	0.34	**0.86**	1.8	0.15	**J**
67-64-1	Acetone	**35**	10	1.5	**15**	4.2	0.65	
75-69-4	Trichlorofluoromethane	**1.7**	0.20	0.11	**0.30**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.5**	10	0.84	**1.8**	4.1	0.34	**J**
107-13-1	Acrylonitrile	ND	1.0	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-09-2	Methylene Chloride	**140**	1.0	0.34	**39**	0.29	0.098	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.064	0.049	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.20	0.16	**0.064**	0.026	0.021	
75-15-0	Carbon Disulfide	**0.87**	10	0.30	**0.28**	3.2	0.097	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.056	0.052	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.37	
78-93-3	2-Butanone (MEK)	**4.2**	10	0.42	**1.4**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00165

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**5.4**	2.0	0.70	**1.5**	0.56	0.20	
110-54-3	n-Hexane	**14**	1.0	0.30	**3.9**	0.29	0.086	
67-66-3	Chloroform	**0.67**	0.20	0.18	**0.14**	0.041	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	ND	0.20	0.12	ND	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	**2.2**	0.20	0.15	**0.40**	0.037	0.027	
71-43-2	Benzene	**5.8**	0.20	0.16	**1.8**	0.063	0.050	
56-23-5	Carbon Tetrachloride	**0.49**	0.20	0.17	**0.078**	0.032	0.027	
110-82-7	Cyclohexane	**7.5**	2.0	0.58	**2.2**	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.020	
79-01-6	Trichloroethene	**1.8**	0.20	0.18	**0.33**	0.037	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.089	
80-62-6	Methyl Methacrylate	ND	2.0	0.62	ND	0.49	0.15	
142-82-5	n-Heptane	**5.4**	1.0	0.34	**1.3**	0.25	0.083	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	**0.53**	1.0	0.32	**0.13**	0.25	0.079	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.029	
108-88-3	Toluene	**22**	1.0	0.34	**5.7**	0.27	0.091	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.25	0.079	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**1.2**	1.0	0.32	**0.24**	0.21	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00165

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.8**	1.0	0.36	**0.39**	0.22	0.077	
127-18-4	Tetrachloroethene	**0.16**	0.20	0.14	**0.023**	0.030	0.021	**J**
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.036	
100-41-4	Ethylbenzene	**3.8**	1.0	0.32	**0.87**	0.23	0.074	
179601-23-1	m,p-Xylenes	**13**	1.0	0.58	**3.1**	0.23	0.13	
75-25-2	Bromoform	ND	1.0	0.30	ND	0.097	0.029	
100-42-5	Styrene	**1.4**	1.0	0.30	**0.33**	0.24	0.071	
95-47-6	o-Xylene	**4.9**	1.0	0.30	**1.1**	0.23	0.069	
111-84-2	n-Nonane	**1.3**	1.0	0.30	**0.25**	0.19	0.057	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.025	
98-82-8	Cumene	**0.34**	1.0	0.30	**0.068**	0.20	0.061	**J**
80-56-8	alpha-Pinene	**2.2**	1.0	0.28	**0.39**	0.18	0.051	
103-65-1	n-Propylbenzene	**0.75**	1.0	0.32	**0.15**	0.20	0.065	**J**
622-96-8	4-Ethyltoluene	**1.2**	1.0	0.32	**0.25**	0.20	0.065	
108-67-8	1,3,5-Trimethylbenzene	**1.3**	1.0	0.32	**0.27**	0.20	0.065	
95-63-6	1,2,4-Trimethylbenzene	**4.5**	1.0	0.30	**0.91**	0.20	0.061	
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.19	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.033	0.031	
5989-27-5	d-Limonene	**7.4**	1.0	0.28	**1.3**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.043	
91-20-3	Naphthalene	**1.1**	1.0	0.36	**0.21**	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.094	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-003

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes: **T**

Container ID: CC00165

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.58 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.01

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.36	Isobutane	**47**	
4.72	n-Butane	**85**	
6.40	n-Pentane	**58**	
7.97	2,3-Dimethylbutane	**25**	
8.06	2-Methylpentane	**44**	
8.43	3-Methylpentane	**31**	
9.61	Methylcyclopentane	**24**	
17.17	unknown hydrocarbon	**34**	
17.43	unknown hydrocarbon	**32**	
17.93	unknown hydrocarbon	**25**	
18.03	unknown	**92**	
18.26	unknown hydrocarbon	**76**	
18.30	alpha-Cumyl Alcohol	**120**	
18.48	unknown hydrocarbon	**57**	
19.38	unknown hydrocarbon	**24**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00164

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.7**	0.96	0.27	**1.6**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.96	0.33	**0.43**	0.19	0.066	
74-87-3	Chloromethane	**0.50**	0.38	0.27	**0.24**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	0.36	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.075	0.071	
106-99-0	1,3-Butadiene	ND	0.38	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.18	ND	0.099	0.046	
75-00-3	Chloroethane	ND	0.38	0.17	ND	0.15	0.063	
64-17-5	Ethanol	**48**	9.6	1.5	**25**	5.1	0.82	
75-05-8	Acetonitrile	**1.2**	0.96	0.35	**0.69**	0.57	0.21	
107-02-8	Acrolein	**6.1**	3.8	0.33	**2.7**	1.7	0.14	
67-64-1	Acetone	**18**	9.6	1.5	**7.6**	4.0	0.62	
75-69-4	Trichlorofluoromethane	**1.1**	0.19	0.11	**0.20**	0.034	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.6**	9.6	0.81	**2.3**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.96	0.33	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
75-09-2	Methylene Chloride	**36**	0.96	0.33	**10**	0.28	0.094	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.061	0.047	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.19	0.15	**0.066**	0.025	0.020	
75-15-0	Carbon Disulfide	**2.7**	9.6	0.29	**0.87**	3.1	0.093	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.047	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.053	0.050	
108-05-4	Vinyl Acetate	**5.0**	9.6	1.2	**1.4**	2.7	0.35	**J**
78-93-3	2-Butanone (MEK)	**2.1**	9.6	0.40	**0.70**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00164

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
141-78-6	Ethyl Acetate	**14**	1.9	0.67	**3.9**	0.53	0.19	
110-54-3	n-Hexane	**0.65**	0.96	0.29	**0.19**	0.27	0.082	**J**
67-66-3	Chloroform	**0.18**	0.19	0.17	**0.038**	0.039	0.035	**J**
109-99-9	Tetrahydrofuran (THF)	ND	0.96	0.38	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.047	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**0.93**	0.19	0.15	**0.29**	0.060	0.047	
56-23-5	Carbon Tetrachloride	**0.53**	0.19	0.17	**0.085**	0.031	0.026	
110-82-7	Cyclohexane	ND	1.9	0.56	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.042	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.96	0.31	ND	0.27	0.085	
80-62-6	Methyl Methacrylate	ND	1.9	0.60	ND	0.47	0.15	
142-82-5	n-Heptane	**0.33**	0.96	0.33	**0.080**	0.23	0.080	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.27	ND	0.21	0.059	
108-10-1	4-Methyl-2-pentanone	ND	0.96	0.31	ND	0.23	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**4.6**	0.96	0.33	**1.2**	0.25	0.087	
591-78-6	2-Hexanone	ND	0.96	0.31	ND	0.23	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.93**	0.96	0.31	**0.20**	0.20	0.065	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00164

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.96	0.35	ND	0.21	0.074	
127-18-4	Tetrachloroethene	ND	0.19	0.14	ND	0.028	0.020	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	**0.39**	0.96	0.31	**0.091**	0.22	0.071	**J**
179601-23-1	m,p-Xylenes	**1.0**	0.96	0.56	**0.24**	0.22	0.13	
75-25-2	Bromoform	ND	0.96	0.29	ND	0.093	0.028	
100-42-5	Styrene	ND	0.96	0.29	ND	0.23	0.068	
95-47-6	o-Xylene	**0.43**	0.96	0.29	**0.099**	0.22	0.066	**J**
111-84-2	n-Nonane	ND	0.96	0.29	ND	0.18	0.055	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.023	
98-82-8	Cumene	**7.5**	0.96	0.29	**1.5**	0.20	0.059	
80-56-8	alpha-Pinene	**0.69**	0.96	0.27	**0.12**	0.17	0.048	**J**
103-65-1	n-Propylbenzene	ND	0.96	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.96	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	**0.45**	0.96	0.29	**0.092**	0.20	0.059	**J**
100-44-7	Benzyl Chloride	ND	0.96	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	**2.0**	0.19	0.15	**0.33**	0.032	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**2.2**	0.96	0.27	**0.39**	0.17	0.048	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.96	0.19	ND	0.099	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	0.31	ND	0.13	0.041	
91-20-3	Naphthalene	**0.91**	0.96	0.35	**0.17**	0.18	0.066	**J**
87-68-3	Hexachlorobutadiene	ND	0.96	0.27	ND	0.090	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P1601740-004

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes: **T**

Container ID: CC00164

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.94	Sulfur Dioxide	**>48**	**!**
4.49	Methyl Alcohol	**4.4**	
4.71	n-Butane	**8.4**	
7.33	unknown	**11**	
8.40	Acetic Acid	**4.1**	
10.66	Dimethylsilanediol	**3.9**	
11.73	Propylene Glycol	**5.2**	
12.19	Dimethyl disulfide	**11**	
14.18	Hexamethylcyclotrisiloxane	**21**	
17.06	alpha-Methylstyrene	**4.6**	
18.04	Acetophenone	**11**	
18.30	alpha-Cumyl Alcohol	**43**	
18.47	n-Nonanal	**6.2**	
19.12	unknown	**6.4**	

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P160406-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P160406-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P160406-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740

ALS Sample ID: P160406-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/6/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601740

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/1/16
Analyst: Wida Ang Date(s) Received: 4/4/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/6/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160406-MB	**100**	**99**	**102**	70-130	
	P160406-LCS	**99**	**97**	**104**	70-130	
	P1601740-002	**99**	**98**	**104**	70-130	
	P1601740-003	**99**	**97**	**105**	70-130	
	P1601740-004	**99**	**97**	**105**	70-130	
	P1601740-004DUP	**100**	**97**	**105**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P160406-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**173**	**92**	65-117	
74-87-3	Chloromethane	200	**207**	**104**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**189**	**93**	65-122	
75-01-4	Vinyl Chloride	200	**217**	**109**	65-128	
106-99-0	1,3-Butadiene	206	**232**	**113**	62-143	
74-83-9	Bromomethane	202	**211**	**104**	65-130	
75-00-3	Chloroethane	200	**200**	**100**	69-126	
64-17-5	Ethanol	998	**945**	**95**	57-126	
75-05-8	Acetonitrile	212	**196**	**92**	51-134	
107-02-8	Acrolein	214	**205**	**96**	55-146	
67-64-1	Acetone	1,080	**938**	**87**	57-120	
75-69-4	Trichlorofluoromethane	216	**175**	**81**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**407**	**97**	59-129	
107-13-1	Acrylonitrile	212	**223**	**105**	64-136	
75-35-4	1,1-Dichloroethene	216	**219**	**101**	72-123	
75-09-2	Methylene Chloride	222	**195**	**88**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**243**	**111**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**205**	**93**	68-118	
75-15-0	Carbon Disulfide	210	**165**	**79**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**220**	**105**	69-129	
75-34-3	1,1-Dichloroethane	212	**202**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**204**	**94**	55-128	
108-05-4	Vinyl Acetate	1,040	**1160**	**112**	66-140	
78-93-3	2-Butanone (MEK)	220	**178**	**81**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P160406-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**221**	**101**	65-125	
141-78-6	Ethyl Acetate	428	**439**	**103**	64-132	
110-54-3	n-Hexane	212	**170**	**80**	58-126	
67-66-3	Chloroform	224	**208**	**93**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**222**	**101**	64-123	
107-06-2	1,2-Dichloroethane	214	**204**	**95**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**203**	**97**	68-120	
71-43-2	Benzene	226	**200**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**216**	**94**	65-137	
110-82-7	Cyclohexane	424	**386**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**222**	**102**	71-124	
79-01-6	Trichloroethene	216	**198**	**92**	71-121	
123-91-1	1,4-Dioxane	210	**233**	**111**	67-122	
80-62-6	Methyl Methacrylate	422	**415**	**98**	76-130	
142-82-5	n-Heptane	216	**196**	**91**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**215**	**103**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**222**	**101**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**225**	**107**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**213**	**99**	73-121	
108-88-3	Toluene	218	**165**	**76**	67-117	
591-78-6	2-Hexanone	220	**218**	**99**	59-128	
124-48-1	Dibromochloromethane	220	**230**	**105**	73-132	
106-93-4	1,2-Dibromoethane	218	**216**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**234**	**104**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P160406-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**192**	**91**	67-124	
127-18-4	Tetrachloroethene	202	**183**	**91**	65-126	
108-90-7	Chlorobenzene	220	**202**	**92**	68-120	
100-41-4	Ethylbenzene	218	**203**	**93**	69-123	
179601-23-1	m,p-Xylenes	428	**392**	**92**	67-125	
75-25-2	Bromoform	228	**231**	**101**	68-153	
100-42-5	Styrene	222	**227**	**102**	68-132	
95-47-6	o-Xylene	210	**193**	**92**	67-124	
111-84-2	n-Nonane	204	**192**	**94**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**204**	**97**	72-128	
98-82-8	Cumene	208	**191**	**92**	67-124	
80-56-8	alpha-Pinene	212	**202**	**95**	67-129	
103-65-1	n-Propylbenzene	204	**191**	**94**	67-125	
622-96-8	4-Ethyltoluene	214	**198**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**197**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**205**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**255**	**116**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**211**	**93**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**200**	**96**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**208**	**95**	62-134	
5989-27-5	d-Limonene	210	**213**	**101**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**232**	**106**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**217**	**94**	60-145	
91-20-3	Naphthalene	218	**210**	**96**	56-158	
87-68-3	Hexachlorobutadiene	230	**201**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-004DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00164

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

Compound	Sample Result		Duplicate Sample Result		Average	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV	µg/m³			
Propene	2.69	1.57	3.02	1.76	2.855	**12**	25	
Dichlorodifluoromethane (CFC 12)	2.14	0.432	2.12	0.428	2.13	**0.9**	25	
Chloromethane	0.505	0.245	0.426	0.206	0.4655	**17**	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	47.6	25.3	46.6	24.8	47.1	**2**	25	
Acetonitrile	1.17	0.694	1.15	0.684	1.16	**2**	25	
Acrolein	6.14	2.68	6.00	2.62	6.07	**2**	25	
Acetone	18.1	7.61	17.8	7.50	17.95	**2**	25	
Trichlorofluoromethane	1.13	0.202	1.13	0.202	1.13	**0**	25	
2-Propanol (Isopropyl Alcohol)	5.59	2.27	5.56	2.26	5.575	**0.5**	25	**J**
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	35.5	10.2	35.0	10.1	35.25	**1**	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.503	0.0657	0.501	0.0654	0.502	**0.4**	25	
Carbon Disulfide	2.70	0.866	2.72	0.874	2.71	**0.7**	25	**J**
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	5.04	1.43	5.06	1.44	5.05	**0.4**	25	**J**
2-Butanone (MEK)	2.07	0.703	2.04	0.691	2.055	**1**	25	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-004DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00164

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	14.0	3.88	13.9	3.85	13.95	**0.7**	25	
n-Hexane	0.655	0.186	0.672	0.191	0.6635	**3**	25	**J**
Chloroform	0.184	0.0378	0.200	0.0409	0.192	**8**	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	0.121	0.0299	-	-	25	**J**
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.927	0.290	0.914	0.286	0.9205	**1**	25	
Carbon Tetrachloride	0.534	0.0849	0.528	0.0840	0.531	**1**	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	0.326	0.0797	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	4.64	1.23	4.60	1.22	4.62	**0.9**	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	0.927	0.195	0.904	0.190	0.9155	**3**	25	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601740
ALS Sample ID: P1601740-004DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00164

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/6/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.03 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.92

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	0.394	0.0907	0.386	0.0889	0.39	**2**	25	**J**
m,p-Xylenes	1.03	0.237	0.996	0.230	1.013	**3**	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	0.428	0.0986	0.422	0.0973	0.425	**1**	25	**J**
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	7.49	1.52	7.35	1.50	7.42	**2**	25	
alpha-Pinene	0.689	0.124	0.682	0.122	0.6855	**1**	25	**J**
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	0.453	0.0922	0.453	0.0922	0.453	**0**	25	**J**
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	1.98	0.330	1.95	0.325	1.965	**2**	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	2.18	0.391	2.14	0.385	2.16	**2**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	0.906	0.173	0.906	0.173	0.906	**0**	25	**J**
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

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LABORATORY REPORT

April 8, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 4, 2016. For your reference, these analyses have been assigned our service request number P1601742.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601742
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

The analysis for sample 56-SU-G (P1601742-001) was cancelled because the valve could not be opened.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Two of the three containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601742
Project ID: Aliso Canyon / 603287048

Date Received: 4/4/2016
Time Received: 09:27

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601742-002	Air	3/31/2016	13:40	AC02092	-0.55	3.80	X
	P1601742-003	Air	4/1/2016	08:56	CC00163	-2.50	3.65	X

P1601742

~~P1601743~~

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 3/31/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Sierra

Rotameter: _____ **Serial # :** _____ **Expiration Date:** _____

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:		3-31-16	4-2-16			
56-SU-G	↓		-28	-0	1409	1340	2859		Living R @ Stevs (Restek N 0678)
			Avg:						
56-SU-D-G	↓	↓	-27	-0	1419	1340	2859		Living R @ Stevs (Restek N. N0404).
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:		Date: 4/2/16	Time: 1547	Received by:		Date: 4/2/16	Time: 3:51pm
Relinquished by:		Date: 4/4/16	Time: 0817	Received by:		Date: 4/4/16	Time: 0817
Relinquished by:		Date: 4/4/16	Time: 0927	Received by:		Date: 4/4/16	Time: 0927

R1601742

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Yvan A. Schmidt	
	Rotameter: —	Serial # : 1421 (Can #)	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	Avg:						
55-SU	Summa	TO-15	-29	-5	0829	0856	1467		Table in Dining Area Flask # 1421
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Stevens	Date: 4-2-16	Time: 1546	Received by:	Date: 4/2/16	Time: 1550		
Relinquished by:	Date: 4-4-16	Time: 0815	Received by:	Date: 4/4/16	Time: 0815		
Relinquished by:	Date: 4/4/16	Time: 0927	Received by:	Date: 4/4/16	Time: 0927		

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601742

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/4/16 Date opened: 4/4/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601742-001.01	6.0 L Ambient Can					
P1601742-002.01	6.0 L Ambient Can					
P1601742-003.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742
ALS Sample ID: P1601742-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02092

Date Collected: 3/31/16
Date Received: 4/4/16
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.4**	0.66	0.18	**2.0**	0.38	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.66	0.22	**0.41**	0.13	0.045	
74-87-3	Chloromethane	**0.28**	0.26	0.18	**0.14**	0.13	0.089	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	0.25	ND	0.094	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.051	0.049	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.083	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.068	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.099	0.043	
64-17-5	Ethanol	**33**	6.6	1.0	**18**	3.5	0.56	
75-05-8	Acetonitrile	**0.37**	0.66	0.24	**0.22**	0.39	0.14	**J**
107-02-8	Acrolein	**2.1**	2.6	0.22	**0.91**	1.1	0.097	**J**
67-64-1	Acetone	**36**	6.6	1.0	**15**	2.8	0.42	
75-69-4	Trichlorofluoromethane	**2.3**	0.13	0.075	**0.40**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.8**	6.6	0.55	**1.2**	2.7	0.22	**J**
107-13-1	Acrylonitrile	ND	0.66	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
75-09-2	Methylene Chloride	**50**	0.66	0.22	**14**	0.19	0.064	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.042	0.032	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.13	0.10	**0.066**	0.017	0.014	
75-15-0	Carbon Disulfide	ND	6.6	0.20	ND	2.1	0.063	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.034	
108-05-4	Vinyl Acetate	ND	6.6	0.85	ND	1.9	0.24	
78-93-3	2-Butanone (MEK)	**8.8**	6.6	0.28	**3.0**	2.2	0.093	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742

ALS Sample ID: P1601742-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02092

Date Collected: 3/31/16

Date Received: 4/4/16

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	**1.4**	1.3	0.46	**0.39**	0.36	0.13	
110-54-3	n-Hexane	**5.4**	0.66	0.20	**1.5**	0.19	0.056	
67-66-3	Chloroform	**0.12**	0.13	0.12	**0.025**	0.027	0.024	**J**
109-99-9	Tetrahydrofuran (THF)	**24**	0.66	0.26	**8.2**	0.22	0.089	
107-06-2	1,2-Dichloroethane	**0.61**	0.13	0.081	**0.15**	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.097	ND	0.024	0.018	
71-43-2	Benzene	**3.5**	0.13	0.10	**1.1**	0.041	0.032	
56-23-5	Carbon Tetrachloride	**0.41**	0.13	0.11	**0.066**	0.021	0.018	
110-82-7	Cyclohexane	**1.7**	1.3	0.38	**0.49**	0.38	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.024	
75-27-4	Bromodichloromethane	ND	0.13	0.089	ND	0.020	0.013	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.024	0.022	
123-91-1	1,4-Dioxane	ND	0.66	0.21	ND	0.18	0.058	
80-62-6	Methyl Methacrylate	ND	1.3	0.41	ND	0.32	0.099	
142-82-5	n-Heptane	**3.3**	0.66	0.22	**0.80**	0.16	0.054	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	ND	0.66	0.21	ND	0.16	0.051	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	0.21	ND	0.14	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	**18**	0.66	0.22	**4.7**	0.17	0.059	
591-78-6	2-Hexanone	ND	0.66	0.21	ND	0.16	0.051	
124-48-1	Dibromochloromethane	**0.14**	0.13	0.11	**0.016**	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**0.50**	0.66	0.21	**0.11**	0.14	0.044	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742

ALS Sample ID: P1601742-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02092

Date Collected: 3/31/16

Date Received: 4/4/16

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.2**	0.66	0.24	**0.27**	0.14	0.050	
127-18-4	Tetrachloroethene	**0.76**	0.13	0.094	**0.11**	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.024	
100-41-4	Ethylbenzene	**3.1**	0.66	0.21	**0.72**	0.15	0.048	
179601-23-1	m,p-Xylenes	**12**	0.66	0.38	**2.7**	0.15	0.087	
75-25-2	Bromoform	ND	0.66	0.20	ND	0.063	0.019	
100-42-5	Styrene	**0.20**	0.66	0.20	**0.047**	0.15	0.046	**J**
95-47-6	o-Xylene	**3.6**	0.66	0.20	**0.84**	0.15	0.045	
111-84-2	n-Nonane	**0.51**	0.66	0.20	**0.098**	0.12	0.037	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.66	0.20	ND	0.13	0.040	
80-56-8	alpha-Pinene	**1.4**	0.66	0.18	**0.26**	0.12	0.033	
103-65-1	n-Propylbenzene	**0.67**	0.66	0.21	**0.14**	0.13	0.043	
622-96-8	4-Ethyltoluene	**1.1**	0.66	0.21	**0.22**	0.13	0.043	
108-67-8	1,3,5-Trimethylbenzene	**0.87**	0.66	0.21	**0.18**	0.13	0.043	
95-63-6	1,2,4-Trimethylbenzene	**3.6**	0.66	0.20	**0.73**	0.13	0.040	
100-44-7	Benzyl Chloride	ND	0.66	0.14	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.097	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.10	ND	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.020	
5989-27-5	d-Limonene	**1.2**	0.66	0.18	**0.21**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.66	0.13	ND	0.068	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.66	0.21	ND	0.088	0.028	
91-20-3	Naphthalene	**0.36**	0.66	0.24	**0.068**	0.13	0.045	**J, B**
87-68-3	Hexachlorobutadiene	ND	0.66	0.18	ND	0.061	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742
ALS Sample ID: P1601742-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00163

Date Collected: 4/1/16
Date Received: 4/4/16
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**67**	0.75	0.21	**39**	0.44	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.75	0.26	**0.38**	0.15	0.052	
74-87-3	Chloromethane	**0.26**	0.30	0.21	**0.13**	0.15	0.10	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	0.29	ND	0.11	0.041	
75-01-4	Vinyl Chloride	ND	0.15	0.14	ND	0.059	0.056	
106-99-0	1,3-Butadiene	ND	0.30	0.21	ND	0.14	0.095	
74-83-9	Bromomethane	ND	0.30	0.14	ND	0.077	0.036	
75-00-3	Chloroethane	ND	0.30	0.13	ND	0.11	0.049	
64-17-5	Ethanol	**230**	7.5	1.2	**120**	4.0	0.64	
75-05-8	Acetonitrile	**0.38**	0.75	0.27	**0.23**	0.45	0.16	**J**
107-02-8	Acrolein	**8.3**	3.0	0.26	**3.6**	1.3	0.11	
67-64-1	Acetone	**38**	7.5	1.2	**16**	3.2	0.49	
75-69-4	Trichlorofluoromethane	**1.0**	0.15	0.086	**0.18**	0.027	0.015	
67-63-0	2-Propanol (Isopropyl Alcohol)	**69**	7.5	0.63	**28**	3.1	0.26	
107-13-1	Acrylonitrile	ND	0.75	0.26	ND	0.35	0.12	
75-35-4	1,1-Dichloroethene	ND	0.15	0.14	ND	0.038	0.035	
75-09-2	Methylene Chloride	**18**	0.75	0.26	**5.3**	0.22	0.073	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.11	ND	0.048	0.036	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.15	0.12	**0.066**	0.020	0.016	
75-15-0	Carbon Disulfide	**2.9**	7.5	0.23	**0.92**	2.4	0.072	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.14	ND	0.038	0.034	
75-34-3	1,1-Dichloroethane	ND	0.15	0.12	ND	0.037	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.14	ND	0.042	0.039	
108-05-4	Vinyl Acetate	**7.2**	7.5	0.98	**2.0**	2.1	0.28	**J**
78-93-3	2-Butanone (MEK)	**2.7**	7.5	0.32	**0.93**	2.5	0.11	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742

ALS Sample ID: P1601742-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00163

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.14	ND	0.038	0.035	
141-78-6	Ethyl Acetate	**21**	1.5	0.53	**5.8**	0.42	0.15	
110-54-3	n-Hexane	**0.61**	0.75	0.23	**0.17**	0.21	0.064	**J**
67-66-3	Chloroform	**0.45**	0.15	0.13	**0.092**	0.031	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	0.30	ND	0.25	0.10	
107-06-2	1,2-Dichloroethane	**0.29**	0.15	0.093	**0.070**	0.037	0.023	
71-55-6	1,1,1-Trichloroethane	**6.6**	0.15	0.11	**1.2**	0.028	0.020	
71-43-2	Benzene	**0.85**	0.15	0.12	**0.27**	0.047	0.037	
56-23-5	Carbon Tetrachloride	**0.45**	0.15	0.13	**0.071**	0.024	0.021	
110-82-7	Cyclohexane	**28**	1.5	0.44	**8.0**	0.44	0.13	
78-87-5	1,2-Dichloropropane	ND	0.15	0.12	ND	0.032	0.027	
75-27-4	Bromodichloromethane	ND	0.15	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	ND	0.15	0.13	ND	0.028	0.025	
123-91-1	1,4-Dioxane	ND	0.75	0.24	ND	0.21	0.067	
80-62-6	Methyl Methacrylate	ND	1.5	0.47	ND	0.37	0.11	
142-82-5	n-Heptane	**1.9**	0.75	0.26	**0.47**	0.18	0.062	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.21	ND	0.17	0.046	
108-10-1	4-Methyl-2-pentanone	**0.81**	0.75	0.24	**0.20**	0.18	0.059	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	0.24	ND	0.17	0.053	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.12	ND	0.028	0.022	
108-88-3	Toluene	**4.0**	0.75	0.26	**1.1**	0.20	0.068	
591-78-6	2-Hexanone	**0.30**	0.75	0.24	**0.074**	0.18	0.059	**J**
124-48-1	Dibromochloromethane	ND	0.15	0.13	ND	0.018	0.015	
106-93-4	1,2-Dibromoethane	ND	0.15	0.13	ND	0.020	0.017	
123-86-4	n-Butyl Acetate	**0.93**	0.75	0.24	**0.20**	0.16	0.051	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742

ALS Sample ID: P1601742-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00163

Date Collected: 4/1/16

Date Received: 4/4/16

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.33**	0.75	0.27	**0.071**	0.16	0.058	**J**
127-18-4	Tetrachloroethene	**0.14**	0.15	0.11	**0.020**	0.022	0.016	**J**
108-90-7	Chlorobenzene	ND	0.15	0.12	ND	0.033	0.027	
100-41-4	Ethylbenzene	**45**	0.75	0.24	**10**	0.17	0.055	
179601-23-1	m,p-Xylenes	**160**	0.75	0.44	**36**	0.17	0.10	
75-25-2	Bromoform	ND	0.75	0.23	ND	0.073	0.022	
100-42-5	Styrene	**0.30**	0.75	0.23	**0.072**	0.18	0.053	**J**
95-47-6	o-Xylene	**30**	0.75	0.23	**7.0**	0.17	0.052	
111-84-2	n-Nonane	**0.30**	0.75	0.23	**0.058**	0.14	0.043	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.13	ND	0.022	0.018	
98-82-8	Cumene	ND	0.75	0.23	ND	0.15	0.046	
80-56-8	alpha-Pinene	**2.5**	0.75	0.21	**0.45**	0.13	0.038	
103-65-1	n-Propylbenzene	ND	0.75	0.24	ND	0.15	0.049	
622-96-8	4-Ethyltoluene	**0.26**	0.75	0.24	**0.052**	0.15	0.049	**J**
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	0.24	ND	0.15	0.049	
95-63-6	1,2,4-Trimethylbenzene	**0.65**	0.75	0.23	**0.13**	0.15	0.046	**J**
100-44-7	Benzyl Chloride	ND	0.75	0.17	ND	0.14	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.11	ND	0.025	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.15	0.11	ND	0.025	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.14	ND	0.025	0.023	
5989-27-5	d-Limonene	**520**	7.5	2.1	**93**	1.3	0.38	**D**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	0.15	ND	0.078	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	0.24	ND	0.10	0.032	
91-20-3	Naphthalene	ND	0.75	0.27	ND	0.14	0.052	
87-68-3	Hexachlorobutadiene	ND	0.75	0.21	ND	0.070	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742
ALS Sample ID: P160407-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.18**	0.50	0.17	**0.051**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742

ALS Sample ID: P160407-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742

ALS Sample ID: P160407-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	**0.24**	0.50	0.18	**0.047**	0.095	0.034	**J**
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601742

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 3/31 - 4/1/16
Analyst: Lusine Hakobyan Date(s) Received: 4/4/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/7/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160407-MB	**100**	**102**	**103**	70-130	
P160407-LCS	**95**	**100**	**103**	70-130	
P1601742-002	**97**	**102**	**104**	70-130	
P1601742-003	**98**	**100**	**101**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**190**	**97**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**154**	**82**	65-117	
74-87-3	Chloromethane	200	**155**	**78**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**162**	**79**	65-122	
75-01-4	Vinyl Chloride	200	**170**	**85**	65-128	
106-99-0	1,3-Butadiene	206	**172**	**83**	62-143	
74-83-9	Bromomethane	202	**194**	**96**	65-130	
75-00-3	Chloroethane	200	**193**	**97**	69-126	
64-17-5	Ethanol	998	**881**	**88**	57-126	
75-05-8	Acetonitrile	212	**194**	**92**	51-134	
107-02-8	Acrolein	214	**185**	**86**	55-146	
67-64-1	Acetone	1,080	**941**	**87**	57-120	
75-69-4	Trichlorofluoromethane	216	**160**	**74**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**376**	**90**	59-129	
107-13-1	Acrylonitrile	212	**191**	**90**	64-136	
75-35-4	1,1-Dichloroethene	216	**192**	**89**	72-123	
75-09-2	Methylene Chloride	222	**187**	**84**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**188**	**86**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**186**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**162**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**190**	**90**	69-129	
75-34-3	1,1-Dichloroethane	212	**181**	**85**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**180**	**83**	55-128	
108-05-4	Vinyl Acetate	1,040	**976**	**94**	66-140	
78-93-3	2-Butanone (MEK)	220	**201**	**91**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**192**	**88**	65-125	
141-78-6	Ethyl Acetate	428	**386**	**90**	64-132	
110-54-3	n-Hexane	212	**175**	**83**	58-126	
67-66-3	Chloroform	224	**183**	**82**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**203**	**92**	64-123	
107-06-2	1,2-Dichloroethane	214	**176**	**82**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**177**	**84**	68-120	
71-43-2	Benzene	226	**186**	**82**	61-110	
56-23-5	Carbon Tetrachloride	230	**191**	**83**	65-137	
110-82-7	Cyclohexane	424	**365**	**86**	68-122	
78-87-5	1,2-Dichloropropane	216	**191**	**88**	67-122	
75-27-4	Bromodichloromethane	218	**190**	**87**	71-124	
79-01-6	Trichloroethene	216	**177**	**82**	71-121	
123-91-1	1,4-Dioxane	210	**198**	**94**	67-122	
80-62-6	Methyl Methacrylate	422	**380**	**90**	76-130	
142-82-5	n-Heptane	216	**186**	**86**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**189**	**91**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**200**	**91**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**194**	**92**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**188**	**87**	73-121	
108-88-3	Toluene	218	**181**	**83**	67-117	
591-78-6	2-Hexanone	220	**201**	**91**	59-128	
124-48-1	Dibromochloromethane	220	**203**	**92**	73-132	
106-93-4	1,2-Dibromoethane	218	**196**	**90**	73-128	
123-86-4	n-Butyl Acetate	226	**204**	**90**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601742
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**190**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**177**	**88**	65-126	
108-90-7	Chlorobenzene	220	**189**	**86**	68-120	
100-41-4	Ethylbenzene	218	**187**	**86**	69-123	
179601-23-1	m,p-Xylenes	428	**366**	**86**	67-125	
75-25-2	Bromoform	228	**207**	**91**	68-153	
100-42-5	Styrene	222	**194**	**87**	68-132	
95-47-6	o-Xylene	210	**181**	**86**	67-124	
111-84-2	n-Nonane	204	**176**	**86**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**190**	**90**	72-128	
98-82-8	Cumene	208	**193**	**93**	67-124	
80-56-8	alpha-Pinene	212	**189**	**89**	67-129	
103-65-1	n-Propylbenzene	204	**179**	**88**	67-125	
622-96-8	4-Ethyltoluene	214	**194**	**91**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**180**	**84**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**187**	**86**	62-134	
100-44-7	Benzyl Chloride	220	**226**	**103**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**199**	**87**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**189**	**91**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**200**	**91**	62-134	
5989-27-5	d-Limonene	210	**194**	**92**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**221**	**101**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**207**	**90**	60-145	
91-20-3	Naphthalene	218	**185**	**85**	56-158	
87-68-3	Hexachlorobutadiene	230	**202**	**88**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 11, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 6, 2016. For your reference, these analyses have been assigned our service request number P1601803.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 4:58 pm, Apr 11, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601803
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 6, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

A Batch QC (sample duplicate) was analyzed with these samples and the relative percent difference (RPD) for three of the target analytes (1,1-Dichloroethene, Freon-113 and Tetrachloroethene) exceeded the limits. Since the associated field samples were non-detect for the analytes in question, the data quality has not been affected.

One of the containers was batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601803
Project ID: Aliso Canyon / 603287048

Date Received: 4/6/2016
Time Received: 09:50

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601803-001	Air	4/4/2016	08:27	AC01848	-5.32	3.45	X
P1601803-002	Air	4/4/2016	08:27	AS00411	-6.26	3.51	X
P1601803-003	Air	4/4/2016	08:56	CC00188	-6.35	3.57	X
P1601803-004	Air	4/4/2016	10:07	AS01040	-7.72	3.30	X

P1601863

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4/4/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Carlos Serrano, Shannan Hill	
	Rotameter: NA **Serial # :** NA	**Expiration Date:**	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Gauge Flow Rate (L/min) Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
(1) 34-SU	"	"	-29	-10	0904 YAS	0827	1 1,403 YAS	Grab @ 0827	dining room table, can 11961 SN AtL00323 gauge at zero before opening
			Avg:						
(2) 34-SU-D	"	"	-29	-12	0904 YAS	0827	1 1,403 YAS	Grab @ 0827	dining room table, can 14086 SN AtL00169 gauge at zero before opening
			Avg:						
(16) 6-SU	"	"	-30	-13	0929	0856	1,407		Kitchen island, can 3150 gauge 7171900, gauge at zero before opening
			Avg:						
(30) 42-SU	"	"	-28	-15	1037	1007	1,410		kitchen island, can R0618 SN 04125 gauge, at zero before opening
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	**Date:** 4/5/16	**Time:** 1708	**Received by:**	**Date:** 4/5/16	**Time:** 1719
Relinquished by:	**Date:** 4/6/16	**Time:** 919	**Received by:**	**Date:** 4/6/16	**Time:** 919
Relinquished by:	**Date:** 4/6/16	**Time:** 930	**Received by:**	**Date:** 4/6/16	**Time:** 930

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601803

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/6/16 Date opened: 4/6/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601803-001.01	6.0 L Ambient Can					
P1601803-002.01	6.0 L Silonite Can					
P1601803-003.01	Canister					
P1601803-004.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01848

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.32 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.7**	0.97	0.27	**1.6**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.97	0.33	**0.41**	0.20	0.066	
74-87-3	Chloromethane	**0.51**	0.39	0.27	**0.25**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.97	0.37	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.076	0.072	
106-99-0	1,3-Butadiene	ND	0.39	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.39	0.18	ND	0.099	0.046	
75-00-3	Chloroethane	ND	0.39	0.17	ND	0.15	0.064	
64-17-5	Ethanol	**51**	9.7	1.5	**27**	5.1	0.82	
75-05-8	Acetonitrile	ND	0.97	0.35	ND	0.58	0.21	
107-02-8	Acrolein	**1.8**	3.9	0.33	**0.79**	1.7	0.14	**J**
67-64-1	Acetone	**39**	9.7	1.5	**17**	4.1	0.63	
75-69-4	Trichlorofluoromethane	**1.1**	0.19	0.11	**0.19**	0.034	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.6**	9.7	0.81	**2.3**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.97	0.33	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
75-09-2	Methylene Chloride	**8.6**	0.97	0.33	**2.5**	0.28	0.094	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.062	0.047	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.19	0.15	**0.064**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.7	0.29	ND	3.1	0.093	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.048	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.054	0.050	
108-05-4	Vinyl Acetate	ND	9.7	1.3	ND	2.7	0.36	
78-93-3	2-Butanone (MEK)	**1.6**	9.7	0.41	**0.55**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P1601803-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01848

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.32 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
141-78-6	Ethyl Acetate	**5.2**	1.9	0.68	**1.4**	0.54	0.19	
110-54-3	n-Hexane	**2.1**	0.97	0.29	**0.61**	0.27	0.082	
67-66-3	Chloroform	**0.21**	0.19	0.17	**0.043**	0.040	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.97	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	**0.21**	0.19	0.12	**0.052**	0.048	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**1.8**	0.19	0.15	**0.55**	0.060	0.048	
56-23-5	Carbon Tetrachloride	**0.46**	0.19	0.17	**0.073**	0.031	0.026	
110-82-7	Cyclohexane	**0.76**	1.9	0.56	**0.22**	0.56	0.16	**J**
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.042	0.035	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.020	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.97	0.31	ND	0.27	0.086	
80-62-6	Methyl Methacrylate	ND	1.9	0.60	ND	0.47	0.15	
142-82-5	n-Heptane	**1.7**	0.97	0.33	**0.41**	0.24	0.080	
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.97	0.31	ND	0.24	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**10**	0.97	0.33	**2.8**	0.26	0.087	
591-78-6	2-Hexanone	ND	0.97	0.31	ND	0.24	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**1.3**	0.97	0.31	**0.27**	0.20	0.065	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01848

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.32 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.72**	0.97	0.35	**0.15**	0.21	0.074	**J**
127-18-4	Tetrachloroethene	ND	0.19	0.14	ND	0.028	0.021	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	**1.5**	0.97	0.31	**0.34**	0.22	0.071	
179601-23-1	m,p-Xylenes	**6.1**	0.97	0.56	**1.4**	0.22	0.13	
75-25-2	Bromoform	ND	0.97	0.29	ND	0.093	0.028	
100-42-5	Styrene	**0.61**	0.97	0.29	**0.14**	0.23	0.068	**J**
95-47-6	o-Xylene	**2.0**	0.97	0.29	**0.45**	0.22	0.067	
111-84-2	n-Nonane	**0.33**	0.97	0.29	**0.063**	0.18	0.055	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.024	
98-82-8	Cumene	ND	0.97	0.29	ND	0.20	0.059	
80-56-8	alpha-Pinene	**3.6**	0.97	0.27	**0.64**	0.17	0.049	
103-65-1	n-Propylbenzene	ND	0.97	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	**0.47**	0.97	0.31	**0.097**	0.20	0.063	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.42**	0.97	0.31	**0.086**	0.20	0.063	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.5**	0.97	0.29	**0.30**	0.20	0.059	
100-44-7	Benzyl Chloride	ND	0.97	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	**0.15**	0.19	0.15	**0.025**	0.032	0.024	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**5.2**	0.97	0.27	**0.93**	0.17	0.049	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.97	0.19	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.97	0.35	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.97	0.27	ND	0.091	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00411

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.26 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.16

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.8**	1.1	0.30	**1.6**	0.63	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.1	0.37	**0.42**	0.22	0.074	
74-87-3	Chloromethane	**0.44**	0.43	0.30	**0.22**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.15	0.059	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.085	0.080	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.43	0.19	ND	0.16	0.071	
64-17-5	Ethanol	**53**	11	1.7	**28**	5.7	0.92	
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.64	0.23	
107-02-8	Acrolein	**1.9**	4.3	0.37	**0.85**	1.9	0.16	**J**
67-64-1	Acetone	**46**	11	1.7	**19**	4.5	0.70	
75-69-4	Trichlorofluoromethane	**1.1**	0.22	0.12	**0.20**	0.038	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**7.6**	11	0.91	**3.1**	4.4	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**38**	1.1	0.37	**11**	0.31	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.16	ND	0.069	0.052	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.22	0.17	**0.063**	0.028	0.023	
75-15-0	Carbon Disulfide	ND	11	0.32	ND	3.5	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.053	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.056	
108-05-4	Vinyl Acetate	ND	11	1.4	ND	3.1	0.40	
78-93-3	2-Butanone (MEK)	**1.7**	11	0.45	**0.56**	3.7	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P1601803-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00411

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.26 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.16

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
141-78-6	Ethyl Acetate	**17**	2.2	0.76	**4.6**	0.60	0.21	
110-54-3	n-Hexane	**2.0**	1.1	0.32	**0.57**	0.31	0.092	
67-66-3	Chloroform	**0.22**	0.22	0.19	**0.046**	0.044	0.039	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.43	ND	0.37	0.15	
107-06-2	1,2-Dichloroethane	ND	0.22	0.13	ND	0.053	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.040	0.029	
71-43-2	Benzene	**1.7**	0.22	0.17	**0.54**	0.068	0.053	
56-23-5	Carbon Tetrachloride	**0.48**	0.22	0.19	**0.076**	0.034	0.030	
110-82-7	Cyclohexane	**0.70**	2.2	0.63	**0.20**	0.63	0.18	**J**
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.040	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.30	0.096	
80-62-6	Methyl Methacrylate	ND	2.2	0.67	ND	0.53	0.16	
142-82-5	n-Heptane	**1.6**	1.1	0.37	**0.39**	0.26	0.090	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.067	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.35	ND	0.26	0.084	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.076	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.040	0.032	
108-88-3	Toluene	**10**	1.1	0.37	**2.7**	0.29	0.097	
591-78-6	2-Hexanone	ND	1.1	0.35	ND	0.26	0.084	
124-48-1	Dibromochloromethane	ND	0.22	0.18	ND	0.025	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	**1.4**	1.1	0.35	**0.30**	0.23	0.073	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00411

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.26 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.16

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.65**	1.1	0.39	**0.14**	0.23	0.083	**J**
127-18-4	Tetrachloroethene	**0.22**	0.22	0.16	**0.032**	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	**1.4**	1.1	0.35	**0.33**	0.25	0.080	
179601-23-1	m,p-Xylenes	**5.7**	1.1	0.63	**1.3**	0.25	0.14	
75-25-2	Bromoform	ND	1.1	0.32	ND	0.10	0.031	
100-42-5	Styrene	**0.61**	1.1	0.32	**0.14**	0.25	0.076	**J**
95-47-6	o-Xylene	**1.8**	1.1	0.32	**0.43**	0.25	0.075	
111-84-2	n-Nonane	**0.37**	1.1	0.32	**0.070**	0.21	0.062	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.031	0.026	
98-82-8	Cumene	ND	1.1	0.32	ND	0.22	0.066	
80-56-8	alpha-Pinene	**3.8**	1.1	0.30	**0.68**	0.19	0.054	
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.070	
622-96-8	4-Ethyltoluene	**0.47**	1.1	0.35	**0.095**	0.22	0.070	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.41**	1.1	0.35	**0.084**	0.22	0.070	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.4**	1.1	0.32	**0.29**	0.22	0.066	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.033	
5989-27-5	d-Limonene	**5.3**	1.1	0.30	**0.96**	0.19	0.054	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	ND	1.1	0.39	ND	0.21	0.074	
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00188

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.35 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**15**	1.1	0.31	**8.5**	0.64	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	1.1	0.37	**0.41**	0.22	0.075	
74-87-3	Chloromethane	**0.42**	0.44	0.31	**0.21**	0.21	0.15	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.060	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.086	0.081	
106-99-0	1,3-Butadiene	ND	0.44	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.44	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.44	0.19	ND	0.17	0.072	
64-17-5	Ethanol	**140**	11	1.8	**76**	5.8	0.93	
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.65	0.23	
107-02-8	Acrolein	**2.5**	4.4	0.37	**1.1**	1.9	0.16	**J**
67-64-1	Acetone	**120**	11	1.7	**50**	4.6	0.71	
75-69-4	Trichlorofluoromethane	**1.1**	0.22	0.12	**0.19**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**35**	11	0.92	**14**	4.5	0.37	
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**64**	1.1	0.37	**18**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.070	0.053	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.22	0.18	**0.063**	0.029	0.023	
75-15-0	Carbon Disulfide	**0.58**	11	0.33	**0.19**	3.5	0.11	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.054	0.043	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.061	0.057	
108-05-4	Vinyl Acetate	**3.2**	11	1.4	**0.90**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**3.4**	11	0.46	**1.2**	3.7	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P1601803-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00188

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.35 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
141-78-6	Ethyl Acetate	**7.5**	2.2	0.77	**2.1**	0.61	0.21	
110-54-3	n-Hexane	ND	1.1	0.33	ND	0.31	0.093	
67-66-3	Chloroform	**0.24**	0.22	0.19	**0.049**	0.045	0.040	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.44	ND	0.37	0.15	
107-06-2	1,2-Dichloroethane	**0.16**	0.22	0.14	**0.040**	0.054	0.034	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.040	0.030	
71-43-2	Benzene	**0.48**	0.22	0.17	**0.15**	0.069	0.054	
56-23-5	Carbon Tetrachloride	**0.46**	0.22	0.19	**0.073**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.64	ND	0.64	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.041	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.30	0.097	
80-62-6	Methyl Methacrylate	ND	2.2	0.68	ND	0.54	0.17	
142-82-5	n-Heptane	ND	1.1	0.37	ND	0.27	0.091	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.068	
108-10-1	4-Methyl-2-pentanone	**0.42**	1.1	0.35	**0.10**	0.27	0.086	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.077	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.040	0.032	
108-88-3	Toluene	**1.5**	1.1	0.37	**0.39**	0.29	0.099	
591-78-6	2-Hexanone	**0.53**	1.1	0.35	**0.13**	0.27	0.086	**J**
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.024	
123-86-4	n-Butyl Acetate	**3.6**	1.1	0.35	**0.75**	0.23	0.074	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P1601803-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00188

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.35 Final Pressure (psig): 3.57

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.084	
127-18-4	Tetrachloroethene	**1.1**	0.22	0.16	**0.17**	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.048	0.039	
100-41-4	Ethylbenzene	**0.39**	1.1	0.35	**0.090**	0.25	0.081	**J**
179601-23-1	m,p-Xylenes	**0.99**	1.1	0.64	**0.23**	0.25	0.15	**J**
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	**0.57**	1.1	0.33	**0.13**	0.26	0.077	**J**
95-47-6	o-Xylene	**0.38**	1.1	0.33	**0.088**	0.25	0.076	**J**
111-84-2	n-Nonane	ND	1.1	0.33	ND	0.21	0.063	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.032	0.027	
98-82-8	Cumene	**1.7**	1.1	0.33	**0.34**	0.22	0.067	
80-56-8	alpha-Pinene	**4.7**	1.1	0.31	**0.85**	0.20	0.055	
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.071	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.071	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.071	
95-63-6	1,2,4-Trimethylbenzene	**0.37**	1.1	0.33	**0.075**	0.22	0.067	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.17	ND	0.036	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.034	
5989-27-5	d-Limonene	**6.7**	1.1	0.31	**1.2**	0.20	0.055	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	**0.56**	1.1	0.39	**0.11**	0.21	0.075	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01040

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.72 Final Pressure (psig): 3.30

Canister Dilution Factor: 2.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**28**	1.3	0.36	**16**	0.75	0.21	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.3	0.44	**0.42**	0.26	0.089	
74-87-3	Chloromethane	**0.51**	0.52	0.36	**0.25**	0.25	0.17	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.3	0.49	ND	0.18	0.070	
75-01-4	Vinyl Chloride	ND	0.26	0.25	ND	0.10	0.096	
106-99-0	1,3-Butadiene	ND	0.52	0.36	ND	0.23	0.16	
74-83-9	Bromomethane	ND	0.52	0.24	ND	0.13	0.062	
75-00-3	Chloroethane	ND	0.52	0.22	ND	0.20	0.085	
64-17-5	Ethanol	**500**	13	2.1	**270**	6.8	1.1	
75-05-8	Acetonitrile	ND	1.3	0.46	ND	0.77	0.28	
107-02-8	Acrolein	**2.1**	5.2	0.44	**0.93**	2.3	0.19	**J**
67-64-1	Acetone	**46**	13	2.0	**19**	5.4	0.84	
75-69-4	Trichlorofluoromethane	**1.1**	0.26	0.15	**0.19**	0.046	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	**59**	13	1.1	**24**	5.3	0.44	
107-13-1	Acrylonitrile	ND	1.3	0.44	ND	0.59	0.20	
75-35-4	1,1-Dichloroethene	ND	0.26	0.24	ND	0.065	0.061	
75-09-2	Methylene Chloride	**67**	1.3	0.44	**19**	0.37	0.13	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.26	0.20	ND	0.082	0.063	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.26	0.21	**0.064**	0.034	0.027	
75-15-0	Carbon Disulfide	ND	13	0.39	ND	4.1	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	0.26	0.23	ND	0.065	0.059	
75-34-3	1,1-Dichloroethane	ND	0.26	0.20	ND	0.064	0.050	
1634-04-4	Methyl tert-Butyl Ether	ND	0.26	0.24	ND	0.072	0.067	
108-05-4	Vinyl Acetate	**2.5**	13	1.7	**0.70**	3.7	0.48	**J**
78-93-3	2-Butanone (MEK)	**2.4**	13	0.54	**0.82**	4.4	0.18	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P1601803-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01040

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.72 Final Pressure (psig): 3.30

Canister Dilution Factor: 2.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.26	0.24	ND	0.065	0.060	
141-78-6	Ethyl Acetate	**17**	2.6	0.90	**4.8**	0.72	0.25	
110-54-3	n-Hexane	**0.85**	1.3	0.39	**0.24**	0.37	0.11	**J**
67-66-3	Chloroform	**0.24**	0.26	0.23	**0.050**	0.053	0.047	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.3	0.52	ND	0.44	0.18	
107-06-2	1,2-Dichloroethane	**0.35**	0.26	0.16	**0.087**	0.064	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.26	0.19	ND	0.047	0.035	
71-43-2	Benzene	**1.5**	0.26	0.20	**0.48**	0.081	0.064	
56-23-5	Carbon Tetrachloride	**0.46**	0.26	0.22	**0.073**	0.041	0.035	
110-82-7	Cyclohexane	ND	2.6	0.75	ND	0.75	0.22	
78-87-5	1,2-Dichloropropane	ND	0.26	0.21	ND	0.056	0.046	
75-27-4	Bromodichloromethane	ND	0.26	0.18	ND	0.039	0.026	
79-01-6	Trichloroethene	ND	0.26	0.23	ND	0.048	0.043	
123-91-1	1,4-Dioxane	ND	1.3	0.41	ND	0.36	0.11	
80-62-6	Methyl Methacrylate	ND	2.6	0.80	ND	0.63	0.20	
142-82-5	n-Heptane	**0.60**	1.3	0.44	**0.15**	0.31	0.11	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.36	ND	0.28	0.080	
108-10-1	4-Methyl-2-pentanone	**1.6**	1.3	0.41	**0.39**	0.31	0.10	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.41	ND	0.28	0.091	
79-00-5	1,1,2-Trichloroethane	ND	0.26	0.21	ND	0.047	0.038	
108-88-3	Toluene	**4.3**	1.3	0.44	**1.1**	0.34	0.12	
591-78-6	2-Hexanone	ND	1.3	0.41	ND	0.32	0.10	
124-48-1	Dibromochloromethane	ND	0.26	0.22	ND	0.030	0.026	
106-93-4	1,2-Dibromoethane	ND	0.26	0.22	ND	0.034	0.029	
123-86-4	n-Butyl Acetate	**1.4**	1.3	0.41	**0.29**	0.27	0.087	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P1601803-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01040

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.72 Final Pressure (psig): 3.30

Canister Dilution Factor: 2.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.3	0.46	ND	0.28	0.099	
127-18-4	Tetrachloroethene	**0.20**	0.26	0.19	**0.029**	0.038	0.027	**J**
108-90-7	Chlorobenzene	ND	0.26	0.21	ND	0.056	0.047	
100-41-4	Ethylbenzene	**0.68**	1.3	0.41	**0.16**	0.30	0.095	**J**
179601-23-1	m,p-Xylenes	**2.1**	1.3	0.75	**0.48**	0.30	0.17	
75-25-2	Bromoform	ND	1.3	0.39	ND	0.12	0.037	
100-42-5	Styrene	**0.80**	1.3	0.39	**0.19**	0.30	0.091	**J**
95-47-6	o-Xylene	**0.74**	1.3	0.39	**0.17**	0.30	0.089	**J**
111-84-2	n-Nonane	**0.49**	1.3	0.39	**0.093**	0.25	0.074	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.26	0.22	ND	0.038	0.032	
98-82-8	Cumene	ND	1.3	0.39	ND	0.26	0.079	
80-56-8	alpha-Pinene	**17**	1.3	0.36	**3.0**	0.23	0.065	
103-65-1	n-Propylbenzene	ND	1.3	0.41	ND	0.26	0.084	
622-96-8	4-Ethyltoluene	ND	1.3	0.41	ND	0.26	0.084	
108-67-8	1,3,5-Trimethylbenzene	ND	1.3	0.41	ND	0.26	0.084	
95-63-6	1,2,4-Trimethylbenzene	**0.69**	1.3	0.39	**0.14**	0.26	0.079	**J**
100-44-7	Benzyl Chloride	ND	1.3	0.28	ND	0.25	0.055	
541-73-1	1,3-Dichlorobenzene	ND	0.26	0.19	ND	0.043	0.032	
106-46-7	1,4-Dichlorobenzene	**0.24**	0.26	0.20	**0.040**	0.043	0.033	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.26	0.24	ND	0.043	0.040	
5989-27-5	d-Limonene	**14**	1.3	0.36	**2.5**	0.23	0.065	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	0.26	ND	0.13	0.026	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.41	ND	0.17	0.056	
91-20-3	Naphthalene	ND	1.3	0.46	ND	0.25	0.089	
87-68-3	Hexachlorobutadiene	ND	1.3	0.36	ND	0.12	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160407-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.17**	0.50	0.17	**0.049**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P160407-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P160407-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/7/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160408-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601803

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/4/16
Analyst: Wida Ang Date(s) Received: 4/6/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/7 - 4/8/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160407-MB	**102**	**98**	**103**	70-130	
P160408-MB	**106**	**97**	**103**	70-130	
P160407-LCS	**100**	**96**	**103**	70-130	
P160408-LCS	**103**	**94**	**104**	70-130	
P1601803-001	**101**	**97**	**104**	70-130	
P1601803-002	**102**	**97**	**103**	70-130	
P1601803-003	**101**	**97**	**102**	70-130	
P1601803-004	**102**	**97**	**104**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**174**	**93**	65-117	
74-87-3	Chloromethane	200	**217**	**109**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**185**	**91**	65-122	
75-01-4	Vinyl Chloride	200	**212**	**106**	65-128	
106-99-0	1,3-Butadiene	206	**222**	**108**	62-143	
74-83-9	Bromomethane	202	**208**	**103**	65-130	
75-00-3	Chloroethane	200	**197**	**99**	69-126	
64-17-5	Ethanol	998	**937**	**94**	57-126	
75-05-8	Acetonitrile	212	**194**	**92**	51-134	
107-02-8	Acrolein	214	**199**	**93**	55-146	
67-64-1	Acetone	1,080	**924**	**86**	57-120	
75-69-4	Trichlorofluoromethane	216	**177**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**406**	**97**	59-129	
107-13-1	Acrylonitrile	212	**222**	**105**	64-136	
75-35-4	1,1-Dichloroethene	216	**215**	**100**	72-123	
75-09-2	Methylene Chloride	222	**190**	**86**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**240**	**110**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**203**	**92**	68-118	
75-15-0	Carbon Disulfide	210	**162**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**219**	**104**	69-129	
75-34-3	1,1-Dichloroethane	212	**201**	**95**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**204**	**94**	55-128	
108-05-4	Vinyl Acetate	1,040	**1160**	**112**	66-140	
78-93-3	2-Butanone (MEK)	220	**177**	**80**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**219**	**100**	65-125	
141-78-6	Ethyl Acetate	428	**442**	**103**	64-132	
110-54-3	n-Hexane	212	**174**	**82**	58-126	
67-66-3	Chloroform	224	**206**	**92**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**220**	**100**	64-123	
107-06-2	1,2-Dichloroethane	214	**205**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**208**	**99**	68-120	
71-43-2	Benzene	226	**202**	**89**	61-110	
56-23-5	Carbon Tetrachloride	230	**221**	**96**	65-137	
110-82-7	Cyclohexane	424	**390**	**92**	68-122	
78-87-5	1,2-Dichloropropane	216	**209**	**97**	67-122	
75-27-4	Bromodichloromethane	218	**226**	**104**	71-124	
79-01-6	Trichloroethene	216	**199**	**92**	71-121	
123-91-1	1,4-Dioxane	210	**233**	**111**	67-122	
80-62-6	Methyl Methacrylate	422	**416**	**99**	76-130	
142-82-5	n-Heptane	216	**200**	**93**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**217**	**104**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**223**	**101**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**228**	**109**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**215**	**100**	73-121	
108-88-3	Toluene	218	**163**	**75**	67-117	
591-78-6	2-Hexanone	220	**216**	**98**	59-128	
124-48-1	Dibromochloromethane	220	**229**	**104**	73-132	
106-93-4	1,2-Dibromoethane	218	**216**	**99**	73-128	
123-86-4	n-Butyl Acetate	226	**233**	**103**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160407-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**191**	**91**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**199**	**90**	68-120	
100-41-4	Ethylbenzene	218	**201**	**92**	69-123	
179601-23-1	m,p-Xylenes	428	**389**	**91**	67-125	
75-25-2	Bromoform	228	**230**	**101**	68-153	
100-42-5	Styrene	222	**224**	**101**	68-132	
95-47-6	o-Xylene	210	**193**	**92**	67-124	
111-84-2	n-Nonane	204	**194**	**95**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**204**	**97**	72-128	
98-82-8	Cumene	208	**189**	**91**	67-124	
80-56-8	alpha-Pinene	212	**199**	**94**	67-129	
103-65-1	n-Propylbenzene	204	**190**	**93**	67-125	
622-96-8	4-Ethyltoluene	214	**202**	**94**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**196**	**92**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**204**	**94**	62-134	
100-44-7	Benzyl Chloride	220	**252**	**115**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**209**	**92**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**196**	**94**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**205**	**93**	62-134	
5989-27-5	d-Limonene	210	**211**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**230**	**106**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**215**	**93**	60-145	
91-20-3	Naphthalene	218	**208**	**95**	56-158	
87-68-3	Hexachlorobutadiene	230	**201**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**179**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**175**	**93**	65-117	
74-87-3	Chloromethane	200	**218**	**109**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**185**	**91**	65-122	
75-01-4	Vinyl Chloride	200	**213**	**107**	65-128	
106-99-0	1,3-Butadiene	206	**220**	**107**	62-143	
74-83-9	Bromomethane	202	**205**	**101**	65-130	
75-00-3	Chloroethane	200	**194**	**97**	69-126	
64-17-5	Ethanol	998	**937**	**94**	57-126	
75-05-8	Acetonitrile	212	**194**	**92**	51-134	
107-02-8	Acrolein	214	**201**	**94**	55-146	
67-64-1	Acetone	1,080	**916**	**85**	57-120	
75-69-4	Trichlorofluoromethane	216	**177**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**408**	**98**	59-129	
107-13-1	Acrylonitrile	212	**219**	**103**	64-136	
75-35-4	1,1-Dichloroethene	216	**210**	**97**	72-123	
75-09-2	Methylene Chloride	222	**187**	**84**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**241**	**111**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**199**	**90**	68-118	
75-15-0	Carbon Disulfide	210	**161**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**216**	**103**	69-129	
75-34-3	1,1-Dichloroethane	212	**198**	**93**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**202**	**94**	55-128	
108-05-4	Vinyl Acetate	1,040	**1120**	**108**	66-140	
78-93-3	2-Butanone (MEK)	220	**172**	**78**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**219**	**100**	65-125	
141-78-6	Ethyl Acetate	428	**427**	**100**	64-132	
110-54-3	n-Hexane	212	**165**	**78**	58-126	
67-66-3	Chloroform	224	**205**	**92**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**216**	**98**	64-123	
107-06-2	1,2-Dichloroethane	214	**206**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**211**	**100**	68-120	
71-43-2	Benzene	226	**200**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**224**	**97**	65-137	
110-82-7	Cyclohexane	424	**388**	**92**	68-122	
78-87-5	1,2-Dichloropropane	216	**207**	**96**	67-122	
75-27-4	Bromodichloromethane	218	**228**	**105**	71-124	
79-01-6	Trichloroethene	216	**196**	**91**	71-121	
123-91-1	1,4-Dioxane	210	**234**	**111**	67-122	
80-62-6	Methyl Methacrylate	422	**407**	**96**	76-130	
142-82-5	n-Heptane	216	**195**	**90**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**214**	**103**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**225**	**102**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**229**	**109**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**215**	**100**	73-121	
108-88-3	Toluene	218	**159**	**73**	67-117	
591-78-6	2-Hexanone	220	**215**	**98**	59-128	
124-48-1	Dibromochloromethane	220	**225**	**102**	73-132	
106-93-4	1,2-Dibromoethane	218	**211**	**97**	73-128	
123-86-4	n-Butyl Acetate	226	**233**	**103**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601803
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**187**	**89**	67-124	
127-18-4	Tetrachloroethene	202	**177**	**88**	65-126	
108-90-7	Chlorobenzene	220	**194**	**88**	68-120	
100-41-4	Ethylbenzene	218	**198**	**91**	69-123	
179601-23-1	m,p-Xylenes	428	**384**	**90**	67-125	
75-25-2	Bromoform	228	**227**	**100**	68-153	
100-42-5	Styrene	222	**220**	**99**	68-132	
95-47-6	o-Xylene	210	**190**	**90**	67-124	
111-84-2	n-Nonane	204	**193**	**95**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**201**	**96**	72-128	
98-82-8	Cumene	208	**187**	**90**	67-124	
80-56-8	alpha-Pinene	212	**196**	**92**	67-129	
103-65-1	n-Propylbenzene	204	**188**	**92**	67-125	
622-96-8	4-Ethyltoluene	214	**199**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**193**	**90**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**201**	**92**	62-134	
100-44-7	Benzyl Chloride	220	**250**	**114**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**206**	**90**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**195**	**94**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**203**	**92**	62-134	
5989-27-5	d-Limonene	210	**210**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**227**	**104**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**215**	**93**	60-145	
91-20-3	Naphthalene	218	**207**	**95**	56-158	
87-68-3	Hexachlorobutadiene	230	**201**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 12, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 6, 2016. For your reference, these analyses have been assigned our service request number P1601804.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601804
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 6, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

A leak tight connection with the autosampler was not achieved for the sample identified as 58-SU (P1601804-003). The sample was analyzed and reported; however, the results from this sample should be considered estimated and utilized accordingly.

Three of the six containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601804
Project ID: Aliso Canyon / 603287048

Date Received: 4/6/2016
Time Received: 09:50

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601804-001	Air	4/4/2016	10:51	AS00569	-9.76	4.10	X
	P1601804-002	Air	4/4/2016	10:55	CC00180	-6.25	3.64	X
	P1601804-003	Air	4/4/2016	12:37	CC00175	-5.57	3.65	X
	P1601804-004	Air	4/4/2016	13:29	CC00183	-4.37	3.65	X
	P1601804-005	Air	4/4/2016	14:52	AC02116	-6.62	3.65	X
	P1601804-006	Air	4/4/2016	16:47	AC02151	-6.95	3.72	X

P16P1809

AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/4/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano, Shannan Hill	
	Rotameter: NA Serial # : NA	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Gauge Flow Rate (L/min) Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
70-SU	"	"	-28	-13	1129	1051	1,402		Counter between dining/living area Can 5179 gauge # ATL00298 zero at opening
			Avg:						
70-SU-EXT	"	"	-29	-10	1136	1055	1,399		Can # 3588 gauge # 7075156 window counter, at zero at opening
			Avg:						
58-SU	"	"	-29	-10	~~1312~~ 1245 PAS	1237	1	Grab @1237	living room, can # 3670, gauge SN 02008 gauge at zero (Grab)
			Avg:						
60-SU	"	"	-30	-10	1418	1329	1,391		living room can # 3735 SN 7165033 gauge at zero before opening
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/5/16	Time: 1708	Received by:	Date: 4/5/16	Time: 1719
Relinquished by:	Date: 4/6/16	Time: 915	Received by:	Date: 4/6/16	Time: 919
Relinquished by:	Date: 4/6/16	Time: 950	Received by:	Date: 4/6/16	Time: 0958

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P16p1864 Page 3 of 3

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano, Shannan Hill

Rotameter: NA Serial # : NA Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Gauge Flow Rate (L/min) Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
20-SU	11	11	-30	-14	1512	1452	1,420		dining area. SN#N0717 gauge SN7165026 at zero when opened
			Avg:						
5-SU	11	11	-28	-13	1717	1647	1,410		eat in dining table can# N0617 gauge #A0248023-1 at zero
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/5/16	Time: 1708	Received by:	Date: 4/5/16	Time: 1719
Relinquished by:	Date: 4/6/16	Time: 919	Received by:	Date: 4/6/16	Time: 919
Relinquished by:	Date: 4/6/16	Time: 950	Received by:	Date: 4/6/16	Time: 950

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ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601804

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/6/16 Date opened: 4/6/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601804-001.01	6.0 L Silonite Can					
P1601804-002.01	Canister					
P1601804-003.01	Canister					
P1601804-004.01	Canister					
P1601804-005.01	6.0 L Ambient Can					
P1601804-006.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00569

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -9.76 Final Pressure (psig): 4.10

Canister Dilution Factor: 3.81

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.4**	1.9	0.53	**2.0**	1.1	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	1.9	0.65	**0.37**	0.39	0.13	**J**
74-87-3	Chloromethane	ND	0.76	0.53	ND	0.37	0.26	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.72	ND	0.27	0.10	
75-01-4	Vinyl Chloride	ND	0.38	0.36	ND	0.15	0.14	
106-99-0	1,3-Butadiene	ND	0.76	0.53	ND	0.34	0.24	
74-83-9	Bromomethane	ND	0.76	0.35	ND	0.20	0.091	
75-00-3	Chloroethane	ND	0.76	0.33	ND	0.29	0.13	
64-17-5	Ethanol	**76**	19	3.0	**41**	10	1.6	
75-05-8	Acetonitrile	ND	1.9	0.69	ND	1.1	0.41	
107-02-8	Acrolein	**0.78**	7.6	0.65	**0.34**	3.3	0.28	**J**
67-64-1	Acetone	**14**	19	2.9	**6.1**	8.0	1.2	**J**
75-69-4	Trichlorofluoromethane	**0.67**	0.38	0.22	**0.12**	0.068	0.039	
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.0**	19	1.6	**2.0**	7.8	0.65	**J**
107-13-1	Acrylonitrile	ND	1.9	0.65	ND	0.88	0.30	
75-35-4	1,1-Dichloroethene	ND	0.38	0.35	ND	0.096	0.089	
75-09-2	Methylene Chloride	**32**	1.9	0.65	**9.2**	0.55	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.38	0.29	ND	0.12	0.093	
76-13-1	Trichlorotrifluoroethane	ND	0.38	0.30	ND	0.050	0.040	
75-15-0	Carbon Disulfide	ND	19	0.57	ND	6.1	0.18	
156-60-5	trans-1,2-Dichloroethene	ND	0.38	0.35	ND	0.096	0.087	
75-34-3	1,1-Dichloroethane	ND	0.38	0.30	ND	0.094	0.074	
1634-04-4	Methyl tert-Butyl Ether	ND	0.38	0.35	ND	0.11	0.098	
108-05-4	Vinyl Acetate	ND	19	2.5	ND	5.4	0.70	
78-93-3	2-Butanone (MEK)	**1.0**	19	0.80	**0.34**	6.5	0.27	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00569

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -9.76 Final Pressure (psig): 4.10

Canister Dilution Factor: 3.81

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.38	0.35	ND	0.096	0.088	
141-78-6	Ethyl Acetate	**21**	3.8	1.3	**5.8**	1.1	0.37	
110-54-3	n-Hexane	ND	1.9	0.57	ND	0.54	0.16	
67-66-3	Chloroform	ND	0.38	0.34	ND	0.078	0.069	
109-99-9	Tetrahydrofuran (THF)	ND	1.9	0.76	ND	0.65	0.26	
107-06-2	1,2-Dichloroethane	ND	0.38	0.24	ND	0.094	0.058	
71-55-6	1,1,1-Trichloroethane	ND	0.38	0.28	ND	0.070	0.052	
71-43-2	Benzene	**0.71**	0.38	0.30	**0.22**	0.12	0.094	
56-23-5	Carbon Tetrachloride	ND	0.38	0.33	ND	0.061	0.052	
110-82-7	Cyclohexane	ND	3.8	1.1	ND	1.1	0.32	
78-87-5	1,2-Dichloropropane	ND	0.38	0.32	ND	0.082	0.068	
75-27-4	Bromodichloromethane	ND	0.38	0.26	ND	0.057	0.039	
79-01-6	Trichloroethene	ND	0.38	0.34	ND	0.071	0.063	
123-91-1	1,4-Dioxane	ND	1.9	0.61	ND	0.53	0.17	
80-62-6	Methyl Methacrylate	ND	3.8	1.2	ND	0.93	0.29	
142-82-5	n-Heptane	ND	1.9	0.65	ND	0.47	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.53	ND	0.42	0.12	
108-10-1	4-Methyl-2-pentanone	ND	1.9	0.61	ND	0.47	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.61	ND	0.42	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.38	0.30	ND	0.070	0.056	
108-88-3	Toluene	**3.0**	1.9	0.65	**0.80**	0.51	0.17	
591-78-6	2-Hexanone	ND	1.9	0.61	ND	0.47	0.15	
124-48-1	Dibromochloromethane	ND	0.38	0.32	ND	0.045	0.038	
106-93-4	1,2-Dibromoethane	ND	0.38	0.32	ND	0.050	0.042	
123-86-4	n-Butyl Acetate	ND	1.9	0.61	ND	0.40	0.13	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00569

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -9.76 Final Pressure (psig): 4.10

Canister Dilution Factor: 3.81

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.9	0.69	ND	0.41	0.15	
127-18-4	Tetrachloroethene	**3.2**	0.38	0.27	**0.47**	0.056	0.040	
108-90-7	Chlorobenzene	ND	0.38	0.32	ND	0.083	0.069	
100-41-4	Ethylbenzene	ND	1.9	0.61	ND	0.44	0.14	
179601-23-1	m,p-Xylenes	ND	1.9	1.1	ND	0.44	0.25	
75-25-2	Bromoform	ND	1.9	0.57	ND	0.18	0.055	
100-42-5	Styrene	ND	1.9	0.57	ND	0.45	0.13	
95-47-6	o-Xylene	ND	1.9	0.57	ND	0.44	0.13	
111-84-2	n-Nonane	ND	1.9	0.57	ND	0.36	0.11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.38	0.32	ND	0.056	0.047	
98-82-8	Cumene	ND	1.9	0.57	ND	0.39	0.12	
80-56-8	alpha-Pinene	ND	1.9	0.53	ND	0.34	0.096	
103-65-1	n-Propylbenzene	ND	1.9	0.61	ND	0.39	0.12	
622-96-8	4-Ethyltoluene	ND	1.9	0.61	ND	0.39	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.61	ND	0.39	0.12	
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	0.57	ND	0.39	0.12	
100-44-7	Benzyl Chloride	ND	1.9	0.42	ND	0.37	0.081	
541-73-1	1,3-Dichlorobenzene	ND	0.38	0.28	ND	0.063	0.047	
106-46-7	1,4-Dichlorobenzene	ND	0.38	0.29	ND	0.063	0.048	
95-50-1	1,2-Dichlorobenzene	ND	0.38	0.35	ND	0.063	0.059	
5989-27-5	d-Limonene	**6.9**	1.9	0.53	**1.2**	0.34	0.096	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.38	ND	0.20	0.039	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.61	ND	0.26	0.082	
91-20-3	Naphthalene	ND	1.9	0.69	ND	0.36	0.13	
87-68-3	Hexachlorobutadiene	ND	1.9	0.53	ND	0.18	0.050	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00180

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.25 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.0**	1.1	0.30	**0.60**	0.63	0.18	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.37	**0.38**	0.22	0.075	
74-87-3	Chloromethane	**0.71**	0.43	0.30	**0.34**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.16	0.059	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.085	0.081	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	**0.24**	0.43	0.19	**0.091**	0.16	0.072	**J**
64-17-5	Ethanol	**7.3**	11	1.7	**3.9**	5.8	0.92	**J**
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.65	0.23	
107-02-8	Acrolein	**2.6**	4.3	0.37	**1.1**	1.9	0.16	**J**
67-64-1	Acetone	**22**	11	1.7	**9.3**	4.6	0.70	
75-69-4	Trichlorofluoromethane	**0.97**	0.22	0.12	**0.17**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**0.92**	11	0.91	**0.37**	4.4	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**4.4**	1.1	0.37	**1.3**	0.31	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.16	ND	0.069	0.053	
76-13-1	Trichlorotrifluoroethane	**0.44**	0.22	0.17	**0.058**	0.028	0.023	
75-15-0	Carbon Disulfide	**0.79**	11	0.33	**0.25**	3.5	0.10	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.054	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.056	
108-05-4	Vinyl Acetate	**7.3**	11	1.4	**2.1**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**3.2**	11	0.46	**1.1**	3.7	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00180

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.25 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
141-78-6	Ethyl Acetate	**2.7**	2.2	0.76	**0.76**	0.60	0.21	
110-54-3	n-Hexane	ND	1.1	0.33	ND	0.31	0.092	
67-66-3	Chloroform	ND	0.22	0.19	ND	0.044	0.040	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.43	ND	0.37	0.15	
107-06-2	1,2-Dichloroethane	ND	0.22	0.13	ND	0.054	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.040	0.029	
71-43-2	Benzene	**0.32**	0.22	0.17	**0.10**	0.068	0.054	
56-23-5	Carbon Tetrachloride	**0.36**	0.22	0.19	**0.058**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.63	ND	0.63	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.040	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.30	0.096	
80-62-6	Methyl Methacrylate	ND	2.2	0.67	ND	0.53	0.16	
142-82-5	n-Heptane	ND	1.1	0.37	ND	0.26	0.090	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.067	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.35	ND	0.26	0.085	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.077	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.040	0.032	
108-88-3	Toluene	**1.9**	1.1	0.37	**0.50**	0.29	0.098	
591-78-6	2-Hexanone	**0.35**	1.1	0.35	**0.085**	0.26	0.085	**J**
124-48-1	Dibromochloromethane	ND	0.22	0.18	ND	0.025	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	ND	1.1	0.35	ND	0.23	0.073	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00180

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.25 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.084	
127-18-4	Tetrachloroethene	ND	0.22	0.16	ND	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	**0.50**	1.1	0.35	**0.11**	0.25	0.080	**J**
179601-23-1	m,p-Xylenes	**2.5**	1.1	0.63	**0.59**	0.25	0.14	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.10	0.031	
100-42-5	Styrene	**0.82**	1.1	0.33	**0.19**	0.25	0.076	**J**
95-47-6	o-Xylene	**1.2**	1.1	0.33	**0.27**	0.25	0.075	
111-84-2	n-Nonane	**0.68**	1.1	0.33	**0.13**	0.21	0.062	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.032	0.027	
98-82-8	Cumene	**1.7**	1.1	0.33	**0.35**	0.22	0.066	
80-56-8	alpha-Pinene	**0.89**	1.1	0.30	**0.16**	0.19	0.055	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.071	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.071	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.071	
95-63-6	1,2,4-Trimethylbenzene	**1.2**	1.1	0.33	**0.25**	0.22	0.066	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	**0.65**	0.22	0.16	**0.11**	0.036	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.034	
5989-27-5	d-Limonene	**4.2**	1.1	0.30	**0.76**	0.19	0.055	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	**0.94**	1.1	0.39	**0.18**	0.21	0.075	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00175

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**7.5**	1.0	0.28	**4.4**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.7**	1.0	0.34	**0.35**	0.20	0.069	
74-87-3	Chloromethane	**0.65**	0.40	0.28	**0.32**	0.19	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.079	0.075	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.066	
64-17-5	Ethanol	**750**	10	1.6	**400**	5.3	0.85	
75-05-8	Acetonitrile	**1.5**	1.0	0.36	**0.90**	0.60	0.22	
107-02-8	Acrolein	**4.5**	4.0	0.34	**2.0**	1.8	0.15	
67-64-1	Acetone	**120**	10	1.5	**51**	4.2	0.65	
75-69-4	Trichlorofluoromethane	**0.93**	0.20	0.11	**0.17**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**20**	10	0.84	**8.2**	4.1	0.34	
107-13-1	Acrylonitrile	ND	1.0	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-09-2	Methylene Chloride	**28**	1.0	0.34	**8.1**	0.29	0.098	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.064	0.049	
76-13-1	Trichlorotrifluoroethane	**0.42**	0.20	0.16	**0.055**	0.026	0.021	
75-15-0	Carbon Disulfide	**4.4**	10	0.30	**1.4**	3.2	0.097	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.056	0.052	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.37	
78-93-3	2-Butanone (MEK)	**8.9**	10	0.42	**3.0**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00175

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**8.5**	2.0	0.70	**2.3**	0.56	0.20	
110-54-3	n-Hexane	**0.84**	1.0	0.30	**0.24**	0.29	0.086	**J**
67-66-3	Chloroform	**0.77**	0.20	0.18	**0.16**	0.041	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	**4.4**	0.20	0.12	**1.1**	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.037	0.027	
71-43-2	Benzene	**1.3**	0.20	0.16	**0.41**	0.063	0.050	
56-23-5	Carbon Tetrachloride	**0.55**	0.20	0.17	**0.087**	0.032	0.027	
110-82-7	Cyclohexane	ND	2.0	0.58	ND	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.036	
75-27-4	Bromodichloromethane	**0.21**	0.20	0.14	**0.031**	0.030	0.020	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.037	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.089	
80-62-6	Methyl Methacrylate	ND	2.0	0.62	ND	0.49	0.15	
142-82-5	n-Heptane	**0.54**	1.0	0.34	**0.13**	0.25	0.083	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	**1.0**	1.0	0.32	**0.25**	0.25	0.079	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.029	
108-88-3	Toluene	**4.6**	1.0	0.34	**1.2**	0.27	0.091	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.25	0.079	
124-48-1	Dibromochloromethane	**0.38**	0.20	0.17	**0.045**	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**2.5**	1.0	0.32	**0.53**	0.21	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00175

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.44**	1.0	0.36	**0.093**	0.22	0.077	**J**
127-18-4	Tetrachloroethene	**0.16**	0.20	0.14	**0.023**	0.030	0.021	**J**
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.036	
100-41-4	Ethylbenzene	**0.58**	1.0	0.32	**0.13**	0.23	0.074	**J**
179601-23-1	m,p-Xylenes	**1.4**	1.0	0.58	**0.31**	0.23	0.13	
75-25-2	Bromoform	**0.32**	1.0	0.30	**0.031**	0.097	0.029	**J**
100-42-5	Styrene	**0.79**	1.0	0.30	**0.19**	0.24	0.071	**J**
95-47-6	o-Xylene	**0.67**	1.0	0.30	**0.15**	0.23	0.069	**J**
111-84-2	n-Nonane	ND	1.0	0.30	ND	0.19	0.057	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.025	
98-82-8	Cumene	ND	1.0	0.30	ND	0.20	0.061	
80-56-8	alpha-Pinene	**4.3**	1.0	0.28	**0.77**	0.18	0.051	
103-65-1	n-Propylbenzene	ND	1.0	0.32	ND	0.20	0.065	
622-96-8	4-Ethyltoluene	ND	1.0	0.32	ND	0.20	0.065	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.32	ND	0.20	0.065	
95-63-6	1,2,4-Trimethylbenzene	**0.69**	1.0	0.30	**0.14**	0.20	0.061	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.19	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
106-46-7	1,4-Dichlorobenzene	**0.21**	0.20	0.15	**0.035**	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.033	0.031	
5989-27-5	d-Limonene	**130**	1.0	0.28	**24**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.043	
91-20-3	Naphthalene	**1.8**	1.0	0.36	**0.34**	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.094	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/6/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/9/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00175		

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.01

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.87	1,1-Difluoroethane	**300**	
4.00	Propane	**220**	
4.64	Isobutane	**57**	
5.18	n-Butane	**770**	
14.89	Dimethyl disulfide	**41**	
21.31	unknown hydrocarbon	**43**	
21.99	Unidentified Siloxane	**91**	
22.26	unknown hydrocarbon	**52**	
23.38	n-Tridecane	**61**	
23.90	unknown hydrocarbon	**61**	
24.28	unknown hydrocarbon	**54**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00183

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.37 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.7**	0.89	0.25	**1.6**	0.52	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.89	0.30	**0.39**	0.18	0.061	
74-87-3	Chloromethane	**0.64**	0.36	0.25	**0.31**	0.17	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.89	0.34	ND	0.13	0.048	
75-01-4	Vinyl Chloride	ND	0.18	0.17	ND	0.070	0.066	
106-99-0	1,3-Butadiene	ND	0.36	0.25	ND	0.16	0.11	
74-83-9	Bromomethane	ND	0.36	0.17	ND	0.092	0.043	
75-00-3	Chloroethane	ND	0.36	0.15	ND	0.13	0.059	
64-17-5	Ethanol	**46**	8.9	1.4	**25**	4.7	0.76	
75-05-8	Acetonitrile	ND	0.89	0.32	ND	0.53	0.19	
107-02-8	Acrolein	**3.2**	3.6	0.30	**1.4**	1.6	0.13	**J**
67-64-1	Acetone	**16**	8.9	1.4	**6.6**	3.7	0.58	
75-69-4	Trichlorofluoromethane	**1.0**	0.18	0.10	**0.18**	0.032	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.2**	8.9	0.75	**1.7**	3.6	0.30	**J**
107-13-1	Acrylonitrile	ND	0.89	0.30	ND	0.41	0.14	
75-35-4	1,1-Dichloroethene	ND	0.18	0.17	ND	0.045	0.042	
75-09-2	Methylene Chloride	**44**	0.89	0.30	**13**	0.26	0.087	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	0.14	ND	0.057	0.043	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.18	0.14	**0.062**	0.023	0.019	
75-15-0	Carbon Disulfide	**1.1**	8.9	0.27	**0.36**	2.9	0.086	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.16	ND	0.045	0.041	
75-34-3	1,1-Dichloroethane	ND	0.18	0.14	ND	0.044	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	0.17	ND	0.049	0.046	
108-05-4	Vinyl Acetate	ND	8.9	1.2	ND	2.5	0.33	
78-93-3	2-Butanone (MEK)	**2.1**	8.9	0.37	**0.71**	3.0	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00183

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.37 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.16	ND	0.045	0.041	
141-78-6	Ethyl Acetate	**2.6**	1.8	0.62	**0.71**	0.49	0.17	
110-54-3	n-Hexane	ND	0.89	0.27	ND	0.25	0.076	
67-66-3	Chloroform	**0.20**	0.18	0.16	**0.041**	0.036	0.032	
109-99-9	Tetrahydrofuran (THF)	ND	0.89	0.36	ND	0.30	0.12	
107-06-2	1,2-Dichloroethane	**0.56**	0.18	0.11	**0.14**	0.044	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.18	0.13	ND	0.033	0.024	
71-43-2	Benzene	**0.36**	0.18	0.14	**0.11**	0.056	0.044	
56-23-5	Carbon Tetrachloride	**0.36**	0.18	0.15	**0.057**	0.028	0.024	
110-82-7	Cyclohexane	ND	1.8	0.52	ND	0.52	0.15	
78-87-5	1,2-Dichloropropane	ND	0.18	0.15	ND	0.039	0.032	
75-27-4	Bromodichloromethane	ND	0.18	0.12	ND	0.027	0.018	
79-01-6	Trichloroethene	**0.17**	0.18	0.16	**0.032**	0.033	0.029	**J**
123-91-1	1,4-Dioxane	ND	0.89	0.28	ND	0.25	0.079	
80-62-6	Methyl Methacrylate	ND	1.8	0.55	ND	0.43	0.13	
142-82-5	n-Heptane	ND	0.89	0.30	ND	0.22	0.074	
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	0.25	ND	0.20	0.055	
108-10-1	4-Methyl-2-pentanone	**0.35**	0.89	0.28	**0.086**	0.22	0.070	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	0.28	ND	0.20	0.063	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.14	ND	0.033	0.026	
108-88-3	Toluene	**1.3**	0.89	0.30	**0.34**	0.24	0.080	
591-78-6	2-Hexanone	ND	0.89	0.28	ND	0.22	0.070	
124-48-1	Dibromochloromethane	ND	0.18	0.15	ND	0.021	0.018	
106-93-4	1,2-Dibromoethane	ND	0.18	0.15	ND	0.023	0.020	
123-86-4	n-Butyl Acetate	**0.92**	0.89	0.28	**0.19**	0.19	0.060	

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00183

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.37 Final Pressure (psig): 3.65

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.89	0.32	ND	0.19	0.069	
127-18-4	Tetrachloroethene	**1.1**	0.18	0.13	**0.16**	0.026	0.019	
108-90-7	Chlorobenzene	ND	0.18	0.15	ND	0.039	0.032	
100-41-4	Ethylbenzene	ND	0.89	0.28	ND	0.20	0.066	
179601-23-1	m,p-Xylenes	**0.63**	0.89	0.52	**0.15**	0.20	0.12	**J**
75-25-2	Bromoform	ND	0.89	0.27	ND	0.086	0.026	
100-42-5	Styrene	**0.30**	0.89	0.27	**0.071**	0.21	0.063	**J**
95-47-6	o-Xylene	ND	0.89	0.27	ND	0.20	0.061	
111-84-2	n-Nonane	ND	0.89	0.27	ND	0.17	0.051	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.15	ND	0.026	0.022	
98-82-8	Cumene	ND	0.89	0.27	ND	0.18	0.054	
80-56-8	alpha-Pinene	**0.95**	0.89	0.25	**0.17**	0.16	0.045	
103-65-1	n-Propylbenzene	ND	0.89	0.28	ND	0.18	0.058	
622-96-8	4-Ethyltoluene	ND	0.89	0.28	ND	0.18	0.058	
108-67-8	1,3,5-Trimethylbenzene	ND	0.89	0.28	ND	0.18	0.058	
95-63-6	1,2,4-Trimethylbenzene	ND	0.89	0.27	ND	0.18	0.054	
100-44-7	Benzyl Chloride	ND	0.89	0.20	ND	0.17	0.038	
541-73-1	1,3-Dichlorobenzene	ND	0.18	0.13	ND	0.030	0.022	
106-46-7	1,4-Dichlorobenzene	**0.81**	0.18	0.14	**0.13**	0.030	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.18	0.17	ND	0.030	0.028	
5989-27-5	d-Limonene	**0.93**	0.89	0.25	**0.17**	0.16	0.045	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.89	0.18	ND	0.092	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	0.89	0.28	ND	0.12	0.038	
91-20-3	Naphthalene	ND	0.89	0.32	ND	0.17	0.061	
87-68-3	Hexachlorobutadiene	ND	0.89	0.25	ND	0.083	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02116

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.62 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**29**	1.1	0.32	**17**	0.66	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.39	**0.39**	0.23	0.078	
74-87-3	Chloromethane	**0.71**	0.45	0.32	**0.34**	0.22	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.43	ND	0.16	0.062	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.089	0.084	
106-99-0	1,3-Butadiene	ND	0.45	0.32	ND	0.21	0.14	
74-83-9	Bromomethane	ND	0.45	0.21	ND	0.12	0.054	
75-00-3	Chloroethane	ND	0.45	0.20	ND	0.17	0.075	
64-17-5	Ethanol	**1,100**	11	1.8	**560**	6.0	0.96	
75-05-8	Acetonitrile	ND	1.1	0.41	ND	0.68	0.24	
107-02-8	Acrolein	**3.5**	4.5	0.39	**1.5**	2.0	0.17	**J**
67-64-1	Acetone	**100**	11	1.7	**42**	4.8	0.74	
75-69-4	Trichlorofluoromethane	**0.98**	0.23	0.13	**0.17**	0.040	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**62**	11	0.95	**25**	4.6	0.39	
107-13-1	Acrylonitrile	ND	1.1	0.39	ND	0.52	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.057	0.053	
75-09-2	Methylene Chloride	**71**	1.1	0.39	**21**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.073	0.055	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.23	0.18	**0.062**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	11	0.34	ND	3.6	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.057	0.052	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.056	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.063	0.059	
108-05-4	Vinyl Acetate	**8.7**	11	1.5	**2.5**	3.2	0.42	**J**
78-93-3	2-Butanone (MEK)	**3.8**	11	0.48	**1.3**	3.8	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02116

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.62 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.057	0.053	
141-78-6	Ethyl Acetate	**8.8**	2.3	0.79	**2.4**	0.63	0.22	
110-54-3	n-Hexane	**0.58**	1.1	0.34	**0.16**	0.32	0.097	**J**
67-66-3	Chloroform	**0.35**	0.23	0.20	**0.071**	0.047	0.041	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.45	ND	0.38	0.15	
107-06-2	1,2-Dichloroethane	**0.62**	0.23	0.14	**0.15**	0.056	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**0.92**	0.23	0.18	**0.29**	0.071	0.056	
56-23-5	Carbon Tetrachloride	**0.57**	0.23	0.20	**0.090**	0.036	0.031	
110-82-7	Cyclohexane	ND	2.3	0.66	ND	0.66	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.049	0.041	
75-27-4	Bromodichloromethane	ND	0.23	0.15	ND	0.034	0.023	
79-01-6	Trichloroethene	**0.24**	0.23	0.20	**0.045**	0.042	0.038	
123-91-1	1,4-Dioxane	ND	1.1	0.36	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.70	ND	0.55	0.17	
142-82-5	n-Heptane	**0.55**	1.1	0.39	**0.13**	0.28	0.094	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.32	ND	0.25	0.070	
108-10-1	4-Methyl-2-pentanone	**0.58**	1.1	0.36	**0.14**	0.28	0.089	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.36	ND	0.25	0.080	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.033	
108-88-3	Toluene	**4.5**	1.1	0.39	**1.2**	0.30	0.10	
591-78-6	2-Hexanone	ND	1.1	0.36	ND	0.28	0.089	
124-48-1	Dibromochloromethane	**0.27**	0.23	0.19	**0.031**	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.19	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**2.6**	1.1	0.36	**0.54**	0.24	0.076	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02116

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.62 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.41	ND	0.24	0.087	
127-18-4	Tetrachloroethene	**1.3**	0.23	0.16	**0.20**	0.033	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.049	0.041	
100-41-4	Ethylbenzene	**0.65**	1.1	0.36	**0.15**	0.26	0.084	**J**
179601-23-1	m,p-Xylenes	**2.1**	1.1	0.66	**0.49**	0.26	0.15	
75-25-2	Bromoform	ND	1.1	0.34	ND	0.11	0.033	
100-42-5	Styrene	ND	1.1	0.34	ND	0.27	0.080	
95-47-6	o-Xylene	**0.72**	1.1	0.34	**0.17**	0.26	0.078	**J**
111-84-2	n-Nonane	**0.42**	1.1	0.34	**0.081**	0.22	0.065	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.033	0.028	
98-82-8	Cumene	ND	1.1	0.34	ND	0.23	0.069	
80-56-8	alpha-Pinene	**1.8**	1.1	0.32	**0.32**	0.20	0.057	
103-65-1	n-Propylbenzene	ND	1.1	0.36	ND	0.23	0.074	
622-96-8	4-Ethyltoluene	ND	1.1	0.36	ND	0.23	0.074	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.36	ND	0.23	0.074	
95-63-6	1,2,4-Trimethylbenzene	**0.54**	1.1	0.34	**0.11**	0.23	0.069	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.048	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.035	
5989-27-5	d-Limonene	**10**	1.1	0.32	**1.8**	0.20	0.057	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.36	ND	0.15	0.049	
91-20-3	Naphthalene	ND	1.1	0.41	ND	0.22	0.078	
87-68-3	Hexachlorobutadiene	ND	1.1	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-005

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/6/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/8/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AC02116		

Initial Pressure (psig): -6.62 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.27

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.84	1,1-Difluoroethane	**62**	
4.60	Isobutane	**27**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02151

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.95 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.4**	1.2	0.33	**1.9**	0.69	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.2	0.40	**0.38**	0.24	0.082	
74-87-3	Chloromethane	**0.66**	0.48	0.33	**0.32**	0.23	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.45	ND	0.17	0.065	
75-01-4	Vinyl Chloride	ND	0.24	0.23	ND	0.093	0.088	
106-99-0	1,3-Butadiene	ND	0.48	0.33	ND	0.22	0.15	
74-83-9	Bromomethane	ND	0.48	0.22	ND	0.12	0.057	
75-00-3	Chloroethane	ND	0.48	0.21	ND	0.18	0.078	
64-17-5	Ethanol	**53**	12	1.9	**28**	6.3	1.0	
75-05-8	Acetonitrile	ND	1.2	0.43	ND	0.71	0.26	
107-02-8	Acrolein	**3.2**	4.8	0.40	**1.4**	2.1	0.18	**J**
67-64-1	Acetone	**30**	12	1.8	**13**	5.0	0.77	
75-69-4	Trichlorofluoromethane	**1.0**	0.24	0.14	**0.18**	0.042	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.8**	12	1.0	**2.4**	4.8	0.41	**J**
107-13-1	Acrylonitrile	ND	1.2	0.40	ND	0.55	0.19	
75-35-4	1,1-Dichloroethene	ND	0.24	0.22	ND	0.060	0.056	
75-09-2	Methylene Chloride	**100**	1.2	0.40	**29**	0.34	0.12	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.24	0.18	ND	0.076	0.058	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.24	0.19	**0.060**	0.031	0.025	
75-15-0	Carbon Disulfide	ND	12	0.36	ND	3.8	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.24	0.22	ND	0.060	0.055	
75-34-3	1,1-Dichloroethane	ND	0.24	0.19	ND	0.059	0.046	
1634-04-4	Methyl tert-Butyl Ether	ND	0.24	0.22	ND	0.066	0.061	
108-05-4	Vinyl Acetate	**3.5**	12	1.5	**0.99**	3.4	0.44	**J**
78-93-3	2-Butanone (MEK)	**3.7**	12	0.50	**1.3**	4.0	0.17	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P1601804-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02151

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.95 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.24	0.22	ND	0.060	0.055	
141-78-6	Ethyl Acetate	**2.0**	2.4	0.83	**0.56**	0.66	0.23	**J**
110-54-3	n-Hexane	**0.38**	1.2	0.36	**0.11**	0.34	0.10	**J**
67-66-3	Chloroform	ND	0.24	0.21	ND	0.049	0.043	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.48	ND	0.40	0.16	
107-06-2	1,2-Dichloroethane	ND	0.24	0.15	ND	0.059	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.24	0.18	ND	0.044	0.032	
71-43-2	Benzene	**0.55**	0.24	0.19	**0.17**	0.075	0.059	
56-23-5	Carbon Tetrachloride	**0.47**	0.24	0.20	**0.075**	0.038	0.033	
110-82-7	Cyclohexane	ND	2.4	0.69	ND	0.69	0.20	
78-87-5	1,2-Dichloropropane	ND	0.24	0.20	ND	0.052	0.043	
75-27-4	Bromodichloromethane	ND	0.24	0.16	ND	0.036	0.024	
79-01-6	Trichloroethene	ND	0.24	0.21	ND	0.044	0.039	
123-91-1	1,4-Dioxane	ND	1.2	0.38	ND	0.33	0.11	
80-62-6	Methyl Methacrylate	ND	2.4	0.74	ND	0.58	0.18	
142-82-5	n-Heptane	ND	1.2	0.40	ND	0.29	0.099	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.33	ND	0.26	0.073	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.38	ND	0.29	0.093	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.38	ND	0.26	0.084	
79-00-5	1,1,2-Trichloroethane	ND	0.24	0.19	ND	0.044	0.035	
108-88-3	Toluene	**1.6**	1.2	0.40	**0.42**	0.32	0.11	
591-78-6	2-Hexanone	**0.43**	1.2	0.38	**0.11**	0.29	0.093	**J**
124-48-1	Dibromochloromethane	ND	0.24	0.20	ND	0.028	0.024	
106-93-4	1,2-Dibromoethane	ND	0.24	0.20	ND	0.031	0.026	
123-86-4	n-Butyl Acetate	ND	1.2	0.38	ND	0.25	0.080	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P1601804-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02151

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.95 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.43	ND	0.25	0.092	
127-18-4	Tetrachloroethene	**0.18**	0.24	0.17	**0.027**	0.035	0.025	**J**
108-90-7	Chlorobenzene	ND	0.24	0.20	ND	0.052	0.043	
100-41-4	Ethylbenzene	**0.42**	1.2	0.38	**0.097**	0.27	0.088	**J**
179601-23-1	m,p-Xylenes	**1.1**	1.2	0.69	**0.24**	0.27	0.16	**J**
75-25-2	Bromoform	ND	1.2	0.36	ND	0.12	0.035	
100-42-5	Styrene	**0.70**	1.2	0.36	**0.17**	0.28	0.084	**J**
95-47-6	o-Xylene	**0.36**	1.2	0.36	**0.083**	0.27	0.082	**J**
111-84-2	n-Nonane	**0.58**	1.2	0.36	**0.11**	0.23	0.068	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.24	0.20	ND	0.035	0.029	
98-82-8	Cumene	ND	1.2	0.36	ND	0.24	0.073	
80-56-8	alpha-Pinene	**1.2**	1.2	0.33	**0.22**	0.21	0.060	
103-65-1	n-Propylbenzene	ND	1.2	0.38	ND	0.24	0.077	
622-96-8	4-Ethyltoluene	ND	1.2	0.38	ND	0.24	0.077	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.38	ND	0.24	0.077	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.36	ND	0.24	0.073	
100-44-7	Benzyl Chloride	ND	1.2	0.26	ND	0.23	0.051	
541-73-1	1,3-Dichlorobenzene	ND	0.24	0.18	ND	0.040	0.029	
106-46-7	1,4-Dichlorobenzene	ND	0.24	0.18	ND	0.040	0.030	
95-50-1	1,2-Dichlorobenzene	ND	0.24	0.22	ND	0.040	0.037	
5989-27-5	d-Limonene	**1.1**	1.2	0.33	**0.19**	0.21	0.060	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.24	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.38	ND	0.16	0.051	
91-20-3	Naphthalene	ND	1.2	0.43	ND	0.23	0.082	
87-68-3	Hexachlorobutadiene	ND	1.2	0.33	ND	0.11	0.031	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P160408-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160408-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P160409-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160409-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601804

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 4/4/16
Analyst: Evelyn Alvarez Date(s) Received: 4/6/16
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 4/8 - 4/9/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160408-MB	**97**	**99**	**100**	70-130	
P160409-MB	**98**	**100**	**98**	70-130	
P160408-LCS	**95**	**98**	**102**	70-130	
P160409-LCS	**98**	**97**	**101**	70-130	
P1601804-001	**95**	**100**	**101**	70-130	
P1601804-002	**98**	**99**	**99**	70-130	
P1601804-003	**98**	**98**	**99**	70-130	
P1601804-004	**97**	**99**	**101**	70-130	
P1601804-005	**97**	**98**	**100**	70-130	
P1601804-006	**97**	**98**	**99**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**170**	**87**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**188**	**94**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**159**	**78**	65-122	
75-01-4	Vinyl Chloride	200	**174**	**87**	65-128	
106-99-0	1,3-Butadiene	206	**194**	**94**	62-143	
74-83-9	Bromomethane	202	**174**	**86**	65-130	
75-00-3	Chloroethane	200	**179**	**90**	69-126	
64-17-5	Ethanol	998	**913**	**91**	57-126	
75-05-8	Acetonitrile	212	**191**	**90**	51-134	
107-02-8	Acrolein	214	**202**	**94**	55-146	
67-64-1	Acetone	1,080	**1040**	**96**	57-120	
75-69-4	Trichlorofluoromethane	216	**157**	**73**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**405**	**97**	59-129	
107-13-1	Acrylonitrile	212	**219**	**103**	64-136	
75-35-4	1,1-Dichloroethene	216	**200**	**93**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**212**	**97**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**193**	**88**	68-118	
75-15-0	Carbon Disulfide	210	**154**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**210**	**100**	69-129	
75-34-3	1,1-Dichloroethane	212	**191**	**90**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**183**	**85**	55-128	
108-05-4	Vinyl Acetate	1,040	**1050**	**101**	66-140	
78-93-3	2-Butanone (MEK)	220	**228**	**104**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160408-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**210**	**96**	65-125	
141-78-6	Ethyl Acetate	428	**448**	**105**	64-132	
110-54-3	n-Hexane	212	**195**	**92**	58-126	
67-66-3	Chloroform	224	**192**	**86**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**197**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**180**	**84**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**173**	**82**	68-120	
71-43-2	Benzene	226	**191**	**85**	61-110	
56-23-5	Carbon Tetrachloride	230	**182**	**79**	65-137	
110-82-7	Cyclohexane	424	**385**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**204**	**94**	67-122	
75-27-4	Bromodichloromethane	218	**192**	**88**	71-124	
79-01-6	Trichloroethene	216	**177**	**82**	71-121	
123-91-1	1,4-Dioxane	210	**217**	**103**	67-122	
80-62-6	Methyl Methacrylate	422	**440**	**104**	76-130	
142-82-5	n-Heptane	216	**202**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**238**	**108**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**209**	**100**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**198**	**92**	73-121	
108-88-3	Toluene	218	**185**	**85**	67-117	
591-78-6	2-Hexanone	220	**224**	**102**	59-128	
124-48-1	Dibromochloromethane	220	**200**	**91**	73-132	
106-93-4	1,2-Dibromoethane	218	**206**	**94**	73-128	
123-86-4	n-Butyl Acetate	226	**240**	**106**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**196**	**93**	67-124	
127-18-4	Tetrachloroethene	202	**182**	**90**	65-126	
108-90-7	Chlorobenzene	220	**191**	**87**	68-120	
100-41-4	Ethylbenzene	218	**193**	**89**	69-123	
179601-23-1	m,p-Xylenes	428	**381**	**89**	67-125	
75-25-2	Bromoform	228	**200**	**88**	68-153	
100-42-5	Styrene	222	**205**	**92**	68-132	
95-47-6	o-Xylene	210	**186**	**89**	67-124	
111-84-2	n-Nonane	204	**195**	**96**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**199**	**95**	72-128	
98-82-8	Cumene	208	**181**	**87**	67-124	
80-56-8	alpha-Pinene	212	**193**	**91**	67-129	
103-65-1	n-Propylbenzene	204	**184**	**90**	67-125	
622-96-8	4-Ethyltoluene	214	**199**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**185**	**86**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**192**	**88**	62-134	
100-44-7	Benzyl Chloride	220	**195**	**89**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**198**	**87**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**189**	**91**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**191**	**87**	62-134	
5989-27-5	d-Limonene	210	**204**	**97**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**182**	**83**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**180**	**78**	60-145	
91-20-3	Naphthalene	218	**163**	**75**	56-158	
87-68-3	Hexachlorobutadiene	230	**180**	**78**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**199**	**100**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**157**	**77**	65-122	
75-01-4	Vinyl Chloride	200	**181**	**91**	65-128	
106-99-0	1,3-Butadiene	206	**204**	**99**	62-143	
74-83-9	Bromomethane	202	**177**	**88**	65-130	
75-00-3	Chloroethane	200	**180**	**90**	69-126	
64-17-5	Ethanol	998	**956**	**96**	57-126	
75-05-8	Acetonitrile	212	**200**	**94**	51-134	
107-02-8	Acrolein	214	**206**	**96**	55-146	
67-64-1	Acetone	1,080	**1090**	**101**	57-120	
75-69-4	Trichlorofluoromethane	216	**155**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**421**	**101**	59-129	
107-13-1	Acrylonitrile	212	**225**	**106**	64-136	
75-35-4	1,1-Dichloroethene	216	**197**	**91**	72-123	
75-09-2	Methylene Chloride	222	**182**	**82**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**220**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**186**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**155**	**74**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**212**	**101**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**182**	**84**	55-128	
108-05-4	Vinyl Acetate	1,040	**1070**	**103**	66-140	
78-93-3	2-Butanone (MEK)	220	**230**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804

ALS Sample ID: P160409-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**473**	**111**	64-132	
110-54-3	n-Hexane	212	**204**	**96**	58-126	
67-66-3	Chloroform	224	**193**	**86**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**198**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**181**	**85**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**169**	**80**	68-120	
71-43-2	Benzene	226	**193**	**85**	61-110	
56-23-5	Carbon Tetrachloride	230	**177**	**77**	65-137	
110-82-7	Cyclohexane	424	**386**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**192**	**88**	71-124	
79-01-6	Trichloroethene	216	**173**	**80**	71-121	
123-91-1	1,4-Dioxane	210	**214**	**102**	67-122	
80-62-6	Methyl Methacrylate	422	**436**	**103**	76-130	
142-82-5	n-Heptane	216	**203**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**243**	**110**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**209**	**100**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**196**	**91**	73-121	
108-88-3	Toluene	218	**182**	**83**	67-117	
591-78-6	2-Hexanone	220	**230**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**192**	**87**	73-132	
106-93-4	1,2-Dibromoethane	218	**198**	**91**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601804
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**198**	**94**	67-124	
127-18-4	Tetrachloroethene	202	**174**	**86**	65-126	
108-90-7	Chlorobenzene	220	**184**	**84**	68-120	
100-41-4	Ethylbenzene	218	**189**	**87**	69-123	
179601-23-1	m,p-Xylenes	428	**378**	**88**	67-125	
75-25-2	Bromoform	228	**192**	**84**	68-153	
100-42-5	Styrene	222	**201**	**91**	68-132	
95-47-6	o-Xylene	210	**184**	**88**	67-124	
111-84-2	n-Nonane	204	**203**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**199**	**95**	72-128	
98-82-8	Cumene	208	**178**	**86**	67-124	
80-56-8	alpha-Pinene	212	**190**	**90**	67-129	
103-65-1	n-Propylbenzene	204	**183**	**90**	67-125	
622-96-8	4-Ethyltoluene	214	**197**	**92**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**183**	**86**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**194**	**89**	62-134	
100-44-7	Benzyl Chloride	220	**196**	**89**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**195**	**86**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**184**	**88**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**189**	**86**	62-134	
5989-27-5	d-Limonene	210	**209**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**177**	**81**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**175**	**76**	60-145	
91-20-3	Naphthalene	218	**162**	**74**	56-158	
87-68-3	Hexachlorobutadiene	230	**174**	**76**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
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LABORATORY REPORT

April12, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 6, 2016. For your reference, these analyses have been assigned our service request number P1601805.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 9:21 am, Apr 12, 2016

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601805
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 6, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

All The containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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F: +1 805 526 7270
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601805
Project ID: Aliso Canyon / 603287048

Date Received: 4/6/2016
Time Received: 09:50

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601805-001	Air	4/4/2016	08:30	CC00184	-5.13	3.74	X
P1601805-002	Air	4/4/2016	09:18	CC00186	-5.51	3.73	X
P1601805-003	Air	4/4/2016	09:56	CC00166	-6.11	3.80	X
P1601805-004	Air	4/4/2016	09:46	CC00195	-0.93	3.66	X
P1601805-005	Air	4/4/2016	11:35	CC00190	-5.71	3.68	X

P1601805

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/4/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Hovaness Dekeyan
	Rotameter: n/a Serial # : n/a	Expiration Date: n/a

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
1	Residence ID Number – SU 4-SU ~~(19 SU)~~	Summa Restek 1457 ~~3776~~	TO-15 0.13 ug/m³ 75	-27	-10	0908	0833	1402		Dining area next to kitchen. Table ~3.5ft high.
				Avg:		HO 4/4/16				
2	95-SU	AirTech 1685 1207 Restek #1397 ~~3738~~ HO 4/4/16	TO 4/4/16	~~-20~~ -22	-14	~~0948~~ 0955	9:18	1403		Desk – 2nd floor study
				Avg:						
3	103-SU-EXT	Restek 3738		-29.3	-12	1045	~~0956~~ 0956 SL	1371		Backyard. table under overhang. ~3.5ft tall
				Avg:						
4	107-SU	Restek 3601		-30	-2	1050	9:56	1376		on Table
				Avg:						
5	117-SU	Restek 1382		-25.3	-11	1209	1135	1396		Dining Table, on Table ~3.5ft on kitchen table ~3 ft
				Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	Date: 4/5/16	Time: 1735	Received by:	Date: 4/5/16	Time: 1737		
Relinquished by:	Date: 4/6/16	Time: 920	Received by:	Date: 4/6/16	Time: 920		
Relinquished by:	Date: 4/6/16	Time: 950	Received by:	Date: 4/6/16	Time: 0950		

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601805

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/6/16 Date opened: 4/6/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601805-001.01	Canister					
P1601805-002.01	Canister					
P1601805-003.01	Canister					
P1601805-004.01	Canister					
P1601805-005.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00184

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**10**	0.97	0.27	**6.1**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.97	0.33	**0.42**	0.20	0.066	
74-87-3	Chloromethane	**0.53**	0.39	0.27	**0.26**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.97	0.37	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.076	0.072	
106-99-0	1,3-Butadiene	ND	0.39	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.39	0.18	ND	0.099	0.046	
75-00-3	Chloroethane	ND	0.39	0.17	ND	0.15	0.064	
64-17-5	Ethanol	**83**	9.7	1.5	**44**	5.1	0.82	
75-05-8	Acetonitrile	**0.58**	0.97	0.35	**0.35**	0.58	0.21	**J**
107-02-8	Acrolein	**0.97**	3.9	0.33	**0.42**	1.7	0.14	**J**
67-64-1	Acetone	**18**	9.7	1.5	**7.5**	4.1	0.63	
75-69-4	Trichlorofluoromethane	**1.1**	0.19	0.11	**0.20**	0.034	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**21**	9.7	0.81	**8.7**	3.9	0.33	
107-13-1	Acrylonitrile	ND	0.97	0.33	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
75-09-2	Methylene Chloride	**98**	0.97	0.33	**28**	0.28	0.094	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.062	0.047	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.19	0.15	**0.063**	0.025	0.020	
75-15-0	Carbon Disulfide	**0.40**	9.7	0.29	**0.13**	3.1	0.093	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.048	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.054	0.050	
108-05-4	Vinyl Acetate	**9.4**	9.7	1.3	**2.7**	2.7	0.36	**J**
78-93-3	2-Butanone (MEK)	**2.2**	9.7	0.41	**0.74**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00184

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
141-78-6	Ethyl Acetate	**380**	1.9	0.68	**100**	0.54	0.19	
110-54-3	n-Hexane	**0.62**	0.97	0.29	**0.18**	0.27	0.082	**J**
67-66-3	Chloroform	ND	0.19	0.17	ND	0.040	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.97	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	**0.46**	0.19	0.12	**0.11**	0.048	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**2.0**	0.19	0.15	**0.62**	0.060	0.048	
56-23-5	Carbon Tetrachloride	**0.46**	0.19	0.17	**0.073**	0.031	0.026	
110-82-7	Cyclohexane	ND	1.9	0.56	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.042	0.035	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.020	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.97	0.31	ND	0.27	0.086	
80-62-6	Methyl Methacrylate	ND	1.9	0.60	ND	0.47	0.15	
142-82-5	n-Heptane	**0.55**	0.97	0.33	**0.13**	0.24	0.080	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.97	0.31	ND	0.24	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**7.4**	0.97	0.33	**2.0**	0.26	0.087	
591-78-6	2-Hexanone	ND	0.97	0.31	ND	0.24	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.75**	0.97	0.31	**0.16**	0.20	0.065	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P1601805-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00184

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.97	0.35	ND	0.21	0.074	
127-18-4	Tetrachloroethene	**1.4**	0.19	0.14	**0.20**	0.028	0.021	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	**0.31**	0.97	0.31	**0.072**	0.22	0.071	**J**
179601-23-1	m,p-Xylenes	**0.92**	0.97	0.56	**0.21**	0.22	0.13	**J**
75-25-2	Bromoform	ND	0.97	0.29	ND	0.093	0.028	
100-42-5	Styrene	ND	0.97	0.29	ND	0.23	0.068	
95-47-6	o-Xylene	**0.34**	0.97	0.29	**0.079**	0.22	0.067	**J**
111-84-2	n-Nonane	**0.35**	0.97	0.29	**0.067**	0.18	0.055	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.024	
98-82-8	Cumene	**2.9**	0.97	0.29	**0.58**	0.20	0.059	
80-56-8	alpha-Pinene	**0.54**	0.97	0.27	**0.097**	0.17	0.049	**J**
103-65-1	n-Propylbenzene	ND	0.97	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.97	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.97	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	ND	0.97	0.29	ND	0.20	0.059	
100-44-7	Benzyl Chloride	ND	0.97	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.19	0.15	ND	0.032	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**2.4**	0.97	0.27	**0.43**	0.17	0.049	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.97	0.19	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.97	0.35	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.97	0.27	ND	0.091	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00186

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.51 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**8.7**	1.0	0.28	**5.0**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.0	0.34	**0.44**	0.20	0.069	
74-87-3	Chloromethane	**0.49**	0.40	0.28	**0.24**	0.19	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.079	0.075	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.066	
64-17-5	Ethanol	**110**	10	1.6	**57**	5.3	0.85	
75-05-8	Acetonitrile	ND	1.0	0.36	ND	0.60	0.22	
107-02-8	Acrolein	**1.6**	4.0	0.34	**0.71**	1.8	0.15	**J**
67-64-1	Acetone	**19**	10	1.5	**8.1**	4.2	0.65	
75-69-4	Trichlorofluoromethane	**1.2**	0.20	0.11	**0.22**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**20**	10	0.84	**8.3**	4.1	0.34	
107-13-1	Acrylonitrile	ND	1.0	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-09-2	Methylene Chloride	**18**	1.0	0.34	**5.3**	0.29	0.098	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.064	0.049	
76-13-1	Trichlorotrifluoroethane	**0.54**	0.20	0.16	**0.070**	0.026	0.021	
75-15-0	Carbon Disulfide	**0.89**	10	0.30	**0.29**	3.2	0.097	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.056	0.052	
108-05-4	Vinyl Acetate	**2.9**	10	1.3	**0.81**	2.9	0.37	**J**
78-93-3	2-Butanone (MEK)	**4.0**	10	0.42	**1.4**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00186

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.51 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**42**	2.0	0.70	**12**	0.56	0.20	
110-54-3	n-Hexane	ND	1.0	0.30	ND	0.29	0.086	
67-66-3	Chloroform	**0.19**	0.20	0.18	**0.040**	0.041	0.037	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	**0.29**	0.20	0.12	**0.071**	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	**0.25**	0.20	0.15	**0.045**	0.037	0.027	
71-43-2	Benzene	**0.56**	0.20	0.16	**0.18**	0.063	0.050	
56-23-5	Carbon Tetrachloride	**0.42**	0.20	0.17	**0.067**	0.032	0.027	
110-82-7	Cyclohexane	ND	2.0	0.58	ND	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.020	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.037	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.089	
80-62-6	Methyl Methacrylate	ND	2.0	0.62	ND	0.49	0.15	
142-82-5	n-Heptane	ND	1.0	0.34	ND	0.25	0.083	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.32	ND	0.25	0.079	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.029	
108-88-3	Toluene	**1.7**	1.0	0.34	**0.46**	0.27	0.091	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.25	0.079	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**0.57**	1.0	0.32	**0.12**	0.21	0.068	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00186

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.51 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.01

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.36	ND	0.22	0.077	
127-18-4	Tetrachloroethene	ND	0.20	0.14	ND	0.030	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.036	
100-41-4	Ethylbenzene	ND	1.0	0.32	ND	0.23	0.074	
179601-23-1	m,p-Xylenes	ND	1.0	0.58	ND	0.23	0.13	
75-25-2	Bromoform	ND	1.0	0.30	ND	0.097	0.029	
100-42-5	Styrene	**0.47**	1.0	0.30	**0.11**	0.24	0.071	**J**
95-47-6	o-Xylene	ND	1.0	0.30	ND	0.23	0.069	
111-84-2	n-Nonane	ND	1.0	0.30	ND	0.19	0.057	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.025	
98-82-8	Cumene	**2.5**	1.0	0.30	**0.50**	0.20	0.061	
80-56-8	alpha-Pinene	**0.64**	1.0	0.28	**0.11**	0.18	0.051	**J**
103-65-1	n-Propylbenzene	ND	1.0	0.32	ND	0.20	0.065	
622-96-8	4-Ethyltoluene	ND	1.0	0.32	ND	0.20	0.065	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.32	ND	0.20	0.065	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.30	ND	0.20	0.061	
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.19	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.033	0.031	
5989-27-5	d-Limonene	**8.3**	1.0	0.28	**1.5**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.043	
91-20-3	Naphthalene	ND	1.0	0.36	ND	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.094	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00166

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.11 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.15

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.5**	1.1	0.30	**0.88**	0.62	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.1	0.37	**0.44**	0.22	0.074	
74-87-3	Chloromethane	**0.52**	0.43	0.30	**0.25**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.15	0.058	
75-01-4	Vinyl Chloride	ND	0.22	0.20	ND	0.084	0.080	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.19	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.43	0.19	ND	0.16	0.071	
64-17-5	Ethanol	**13**	11	1.7	**6.8**	5.7	0.91	
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.64	0.23	
107-02-8	Acrolein	**0.99**	4.3	0.37	**0.43**	1.9	0.16	**J**
67-64-1	Acetone	**11**	11	1.7	**4.7**	4.5	0.70	
75-69-4	Trichlorofluoromethane	**1.1**	0.22	0.12	**0.20**	0.038	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.5**	11	0.90	**0.62**	4.4	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.054	0.050	
75-09-2	Methylene Chloride	**5.1**	1.1	0.37	**1.5**	0.31	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.16	ND	0.069	0.052	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.22	0.17	**0.063**	0.028	0.022	
75-15-0	Carbon Disulfide	**0.61**	11	0.32	**0.20**	3.5	0.10	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.054	0.049	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.053	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.055	
108-05-4	Vinyl Acetate	**2.2**	11	1.4	**0.62**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**1.8**	11	0.45	**0.60**	3.6	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00166

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.11 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.15

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.054	0.050	
141-78-6	Ethyl Acetate	**1.5**	2.2	0.75	**0.40**	0.60	0.21	**J**
110-54-3	n-Hexane	**0.42**	1.1	0.32	**0.12**	0.31	0.092	**J**
67-66-3	Chloroform	**0.46**	0.22	0.19	**0.093**	0.044	0.039	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.43	ND	0.36	0.15	
107-06-2	1,2-Dichloroethane	ND	0.22	0.13	ND	0.053	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.039	0.029	
71-43-2	Benzene	**0.58**	0.22	0.17	**0.18**	0.067	0.053	
56-23-5	Carbon Tetrachloride	**0.46**	0.22	0.18	**0.073**	0.034	0.029	
110-82-7	Cyclohexane	ND	2.2	0.62	ND	0.62	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.040	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.34	ND	0.30	0.095	
80-62-6	Methyl Methacrylate	ND	2.2	0.67	ND	0.53	0.16	
142-82-5	n-Heptane	ND	1.1	0.37	ND	0.26	0.089	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.066	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.34	ND	0.26	0.084	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.34	ND	0.24	0.076	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.039	0.032	
108-88-3	Toluene	**1.1**	1.1	0.37	**0.30**	0.29	0.097	
591-78-6	2-Hexanone	ND	1.1	0.34	ND	0.26	0.084	
124-48-1	Dibromochloromethane	ND	0.22	0.18	ND	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.22	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	ND	1.1	0.34	ND	0.23	0.072	

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00166

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.11 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.15

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.083	
127-18-4	Tetrachloroethene	ND	0.22	0.15	ND	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	ND	1.1	0.34	ND	0.25	0.079	
179601-23-1	m,p-Xylenes	**0.74**	1.1	0.62	**0.17**	0.25	0.14	**J**
75-25-2	Bromoform	ND	1.1	0.32	ND	0.10	0.031	
100-42-5	Styrene	ND	1.1	0.32	ND	0.25	0.076	
95-47-6	o-Xylene	ND	1.1	0.32	ND	0.25	0.074	
111-84-2	n-Nonane	ND	1.1	0.32	ND	0.21	0.062	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.031	0.026	
98-82-8	Cumene	**1.8**	1.1	0.32	**0.37**	0.22	0.066	
80-56-8	alpha-Pinene	ND	1.1	0.30	ND	0.19	0.054	
103-65-1	n-Propylbenzene	ND	1.1	0.34	ND	0.22	0.070	
622-96-8	4-Ethyltoluene	ND	1.1	0.34	ND	0.22	0.070	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.34	ND	0.22	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	0.32	ND	0.22	0.066	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.033	
5989-27-5	d-Limonene	ND	1.1	0.30	ND	0.19	0.054	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	ND	1.1	0.39	ND	0.21	0.074	
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P1601805-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/6/16
Analyst:	Wida Ang	Date Analyzed:	4/8/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00166		

Initial Pressure (psig): -6.11 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.15

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
11.74	Propylene Glycol	**9.8**	
14.19	Hexamethylcyclotrisiloxane	**30**	
17.06	alpha-Methylstyrene	**22**	
18.04	Acetophenone	**69**	
18.27	N,N,2-Trimethylbenzenamine	**20**	
18.31	alpha-Cumyl Alcohol	**360**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00195

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.93 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	0.67	0.19	**1.4**	0.39	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.67	0.23	**0.43**	0.13	0.046	
74-87-3	Chloromethane	**0.66**	0.27	0.19	**0.32**	0.13	0.090	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	0.25	ND	0.095	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.13	ND	0.052	0.049	
106-99-0	1,3-Butadiene	ND	0.27	0.19	ND	0.12	0.084	
74-83-9	Bromomethane	ND	0.27	0.12	ND	0.069	0.032	
75-00-3	Chloroethane	ND	0.27	0.12	ND	0.10	0.044	
64-17-5	Ethanol	**350**	6.7	1.1	**180**	3.5	0.56	
75-05-8	Acetonitrile	**0.30**	0.67	0.24	**0.18**	0.40	0.14	**J**
107-02-8	Acrolein	**3.5**	2.7	0.23	**1.5**	1.2	0.099	
67-64-1	Acetone	**25**	6.7	1.0	**11**	2.8	0.43	
75-69-4	Trichlorofluoromethane	**1.3**	0.13	0.076	**0.23**	0.024	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.4**	6.7	0.56	**1.4**	2.7	0.23	**J**
107-13-1	Acrylonitrile	ND	0.67	0.23	ND	0.31	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-09-2	Methylene Chloride	**79**	0.67	0.23	**23**	0.19	0.065	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.043	0.032	
76-13-1	Trichlorotrifluoroethane	**0.76**	0.13	0.11	**0.099**	0.017	0.014	
75-15-0	Carbon Disulfide	**1.9**	6.7	0.20	**0.61**	2.1	0.064	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-34-3	1,1-Dichloroethane	ND	0.13	0.11	ND	0.033	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.037	0.034	
108-05-4	Vinyl Acetate	**3.7**	6.7	0.86	**1.1**	1.9	0.25	**J**
78-93-3	2-Butanone (MEK)	**2.6**	6.7	0.28	**0.90**	2.3	0.095	**J**

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Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P1601805-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00195

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.93 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
141-78-6	Ethyl Acetate	**4.6**	1.3	0.47	**1.3**	0.37	0.13	
110-54-3	n-Hexane	**0.46**	0.67	0.20	**0.13**	0.19	0.057	**J**
67-66-3	Chloroform	**0.82**	0.13	0.12	**0.17**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	**0.45**	0.67	0.27	**0.15**	0.23	0.090	**J**
107-06-2	1,2-Dichloroethane	**4.3**	0.13	0.082	**1.1**	0.033	0.020	
71-55-6	1,1,1-Trichloroethane	**0.53**	0.13	0.098	**0.097**	0.024	0.018	
71-43-2	Benzene	**0.99**	0.13	0.11	**0.31**	0.042	0.033	
56-23-5	Carbon Tetrachloride	**0.47**	0.13	0.11	**0.076**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.39	ND	0.39	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	**0.13**	0.13	0.090	**0.019**	0.020	0.014	**J**
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.025	0.022	
123-91-1	1,4-Dioxane	ND	0.67	0.21	ND	0.18	0.059	
80-62-6	Methyl Methacrylate	ND	1.3	0.41	ND	0.32	0.10	
142-82-5	n-Heptane	**0.32**	0.67	0.23	**0.077**	0.16	0.055	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	0.19	ND	0.15	0.041	
108-10-1	4-Methyl-2-pentanone	**0.54**	0.67	0.21	**0.13**	0.16	0.052	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	0.21	ND	0.15	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.11	ND	0.024	0.020	
108-88-3	Toluene	**3.1**	0.67	0.23	**0.82**	0.18	0.060	
591-78-6	2-Hexanone	**0.26**	0.67	0.21	**0.064**	0.16	0.052	**J**
124-48-1	Dibromochloromethane	**0.20**	0.13	0.11	**0.024**	0.016	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.015	
123-86-4	n-Butyl Acetate	**0.62**	0.67	0.21	**0.13**	0.14	0.045	**J**

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P1601805-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00195

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.93 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.25**	0.67	0.24	**0.054**	0.14	0.051	**J**
127-18-4	Tetrachloroethene	**1.2**	0.13	0.096	**0.17**	0.020	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.029	0.024	
100-41-4	Ethylbenzene	**0.52**	0.67	0.21	**0.12**	0.15	0.049	**J**
179601-23-1	m,p-Xylenes	**1.3**	0.67	0.39	**0.30**	0.15	0.089	
75-25-2	Bromoform	**0.28**	0.67	0.20	**0.028**	0.064	0.019	**J**
100-42-5	Styrene	**1.4**	0.67	0.20	**0.34**	0.16	0.047	
95-47-6	o-Xylene	**1.7**	0.67	0.20	**0.38**	0.15	0.046	
111-84-2	n-Nonane	**0.23**	0.67	0.20	**0.043**	0.13	0.038	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	**16**	0.67	0.20	**3.3**	0.14	0.041	
80-56-8	alpha-Pinene	**0.78**	0.67	0.19	**0.14**	0.12	0.033	
103-65-1	n-Propylbenzene	ND	0.67	0.21	ND	0.14	0.043	
622-96-8	4-Ethyltoluene	ND	0.67	0.21	ND	0.14	0.043	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	0.21	ND	0.14	0.043	
95-63-6	1,2,4-Trimethylbenzene	**0.65**	0.67	0.20	**0.13**	0.14	0.041	**J**
100-44-7	Benzyl Chloride	ND	0.67	0.15	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.098	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	**4.9**	0.13	0.10	**0.81**	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.021	
5989-27-5	d-Limonene	**13**	0.67	0.19	**2.3**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	0.13	ND	0.069	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.67	0.21	ND	0.090	0.029	
91-20-3	Naphthalene	ND	0.67	0.24	ND	0.13	0.046	
87-68-3	Hexachlorobutadiene	ND	0.67	0.19	ND	0.062	0.017	

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MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P1601805-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/6/16
Analyst:	Wida Ang	Date Analyzed:	4/8/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00195		

Initial Pressure (psig): -0.93 Final Pressure (psig): 3.66

Canister Dilution Factor: 1.33

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.81	1,1-Difluoroethane	**77**	
4.50	Methyl Alcohol	**13**	
4.70	n-Butane	**7.9**	
6.49	Isoprene	**4.4**	
7.35	unknown	**5.6**	
10.68	Dimethylsilanediol	**6.8**	
12.19	Dimethyl disulfide	**6.2**	
14.19	Hexamethylcyclotrisiloxane	**6.0**	
17.06	alpha-Methylstyrene	**9.8**	
17.59	2-Ethyl-1-hexanol	**4.3**	
17.72	1-Methyl-3-(1-Methylethyl)Benzene	**5.5**	
18.04	Acetophenone	**20**	
18.30	alpha-Cumyl Alcohol	**100**	
18.47	n-Nonanal	**12**	
19.12	unknown	**40**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00190

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.5**	1.0	0.29	**2.6**	0.59	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	0.35	**0.42**	0.21	0.070	
74-87-3	Chloromethane	**0.51**	0.41	0.29	**0.25**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.080	0.076	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.15	0.067	
64-17-5	Ethanol	**30**	10	1.6	**16**	5.4	0.87	
75-05-8	Acetonitrile	**0.39**	1.0	0.37	**0.23**	0.61	0.22	**J**
107-02-8	Acrolein	**2.4**	4.1	0.35	**1.1**	1.8	0.15	**J**
67-64-1	Acetone	**18**	10	1.6	**7.6**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**1.1**	0.20	0.12	**0.20**	0.036	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**8.9**	10	0.86	**3.6**	4.2	0.35	**J**
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.048	
75-09-2	Methylene Chloride	**90**	1.0	0.35	**26**	0.29	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.16	ND	0.065	0.050	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.20	0.16	**0.065**	0.027	0.021	
75-15-0	Carbon Disulfide	**0.55**	10	0.31	**0.18**	3.3	0.098	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**4.2**	10	1.3	**1.2**	2.9	0.38	**J**
78-93-3	2-Butanone (MEK)	**1.9**	10	0.43	**0.65**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00190

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**110**	2.0	0.71	**31**	0.57	0.20	
110-54-3	n-Hexane	**0.37**	1.0	0.31	**0.10**	0.29	0.087	**J**
67-66-3	Chloroform	ND	0.20	0.18	ND	0.042	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	**0.22**	0.20	0.13	**0.054**	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.037	0.028	
71-43-2	Benzene	**0.86**	0.20	0.16	**0.27**	0.064	0.050	
56-23-5	Carbon Tetrachloride	**0.45**	0.20	0.18	**0.072**	0.032	0.028	
110-82-7	Cyclohexane	ND	2.0	0.59	ND	0.59	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.037	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.021	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.28	0.091	
80-62-6	Methyl Methacrylate	ND	2.0	0.63	ND	0.50	0.15	
142-82-5	n-Heptane	**0.41**	1.0	0.35	**0.099**	0.25	0.085	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.22	0.063	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.33	ND	0.25	0.080	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.22	0.072	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.030	
108-88-3	Toluene	**3.3**	1.0	0.35	**0.87**	0.27	0.092	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.25	0.080	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**1.2**	1.0	0.33	**0.26**	0.21	0.069	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P1601805-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00190

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.37	ND	0.22	0.079	
127-18-4	Tetrachloroethene	ND	0.20	0.15	ND	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.037	
100-41-4	Ethylbenzene	ND	1.0	0.33	ND	0.23	0.075	
179601-23-1	m,p-Xylenes	ND	1.0	0.59	ND	0.23	0.14	
75-25-2	Bromoform	ND	1.0	0.31	ND	0.099	0.030	
100-42-5	Styrene	ND	1.0	0.31	ND	0.24	0.072	
95-47-6	o-Xylene	ND	1.0	0.31	ND	0.23	0.070	
111-84-2	n-Nonane	ND	1.0	0.31	ND	0.19	0.058	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.062	
80-56-8	alpha-Pinene	**1.4**	1.0	0.29	**0.25**	0.18	0.051	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.066	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.066	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.066	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.31	ND	0.21	0.062	
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.20	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**3.1**	1.0	0.29	**0.56**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.19	0.070	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.096	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P160408-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805

ALS Sample ID: P160408-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601805

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/4/16
Analyst: Wida Ang Date(s) Received: 4/6/16
Sample Type: Canister(s) Date(s) Analyzed: 4/8/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160408-MB	**106**	**97**	**103**	70-130	
P160408-LCS	**103**	**94**	**104**	70-130	
P1601805-001	**102**	**97**	**103**	70-130	
P1601805-002	**102**	**98**	**103**	70-130	
P1601805-003	**102**	**98**	**103**	70-130	
P1601805-004	**100**	**96**	**103**	70-130	
P1601805-005	**101**	**98**	**103**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**179**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**175**	**93**	65-117	
74-87-3	Chloromethane	200	**218**	**109**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**185**	**91**	65-122	
75-01-4	Vinyl Chloride	200	**213**	**107**	65-128	
106-99-0	1,3-Butadiene	206	**220**	**107**	62-143	
74-83-9	Bromomethane	202	**205**	**101**	65-130	
75-00-3	Chloroethane	200	**194**	**97**	69-126	
64-17-5	Ethanol	998	**937**	**94**	57-126	
75-05-8	Acetonitrile	212	**194**	**92**	51-134	
107-02-8	Acrolein	214	**201**	**94**	55-146	
67-64-1	Acetone	1,080	**916**	**85**	57-120	
75-69-4	Trichlorofluoromethane	216	**177**	**82**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**408**	**98**	59-129	
107-13-1	Acrylonitrile	212	**219**	**103**	64-136	
75-35-4	1,1-Dichloroethene	216	**210**	**97**	72-123	
75-09-2	Methylene Chloride	222	**187**	**84**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**241**	**111**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**199**	**90**	68-118	
75-15-0	Carbon Disulfide	210	**161**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**216**	**103**	69-129	
75-34-3	1,1-Dichloroethane	212	**198**	**93**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**202**	**94**	55-128	
108-05-4	Vinyl Acetate	1,040	**1120**	**108**	66-140	
78-93-3	2-Butanone (MEK)	220	**172**	**78**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**219**	**100**	65-125	
141-78-6	Ethyl Acetate	428	**427**	**100**	64-132	
110-54-3	n-Hexane	212	**165**	**78**	58-126	
67-66-3	Chloroform	224	**205**	**92**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**216**	**98**	64-123	
107-06-2	1,2-Dichloroethane	214	**206**	**96**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**211**	**100**	68-120	
71-43-2	Benzene	226	**200**	**88**	61-110	
56-23-5	Carbon Tetrachloride	230	**224**	**97**	65-137	
110-82-7	Cyclohexane	424	**388**	**92**	68-122	
78-87-5	1,2-Dichloropropane	216	**207**	**96**	67-122	
75-27-4	Bromodichloromethane	218	**228**	**105**	71-124	
79-01-6	Trichloroethene	216	**196**	**91**	71-121	
123-91-1	1,4-Dioxane	210	**234**	**111**	67-122	
80-62-6	Methyl Methacrylate	422	**407**	**96**	76-130	
142-82-5	n-Heptane	216	**195**	**90**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**214**	**103**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**225**	**102**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**229**	**109**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**215**	**100**	73-121	
108-88-3	Toluene	218	**159**	**73**	67-117	
591-78-6	2-Hexanone	220	**215**	**98**	59-128	
124-48-1	Dibromochloromethane	220	**225**	**102**	73-132	
106-93-4	1,2-Dibromoethane	218	**211**	**97**	73-128	
123-86-4	n-Butyl Acetate	226	**233**	**103**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601805
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**187**	**89**	67-124	
127-18-4	Tetrachloroethene	202	**177**	**88**	65-126	
108-90-7	Chlorobenzene	220	**194**	**88**	68-120	
100-41-4	Ethylbenzene	218	**198**	**91**	69-123	
179601-23-1	m,p-Xylenes	428	**384**	**90**	67-125	
75-25-2	Bromoform	228	**227**	**100**	68-153	
100-42-5	Styrene	222	**220**	**99**	68-132	
95-47-6	o-Xylene	210	**190**	**90**	67-124	
111-84-2	n-Nonane	204	**193**	**95**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**201**	**96**	72-128	
98-82-8	Cumene	208	**187**	**90**	67-124	
80-56-8	alpha-Pinene	212	**196**	**92**	67-129	
103-65-1	n-Propylbenzene	204	**188**	**92**	67-125	
622-96-8	4-Ethyltoluene	214	**199**	**93**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**193**	**90**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**201**	**92**	62-134	
100-44-7	Benzyl Chloride	220	**250**	**114**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**206**	**90**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**195**	**94**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**203**	**92**	62-134	
5989-27-5	d-Limonene	210	**210**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**227**	**104**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**215**	**93**	60-145	
91-20-3	Naphthalene	218	**207**	**95**	56-158	
87-68-3	Hexachlorobutadiene	230	**201**	**87**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 12, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 6, 2016. For your reference, these analyses have been assigned our service request number P1601806.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 11:12 am, Apr 12, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601806
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 6, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The minimum control criterion for Chloromethane was not met in the Continuing Calibration Verification (CCV). A CCV analyzed within 24 hours of the original CCV passed. Additionally, some of the samples were reanalyzed under this passing CCV and the results matched the original analysis. The results from the original run have been reported and the data has been flagged accordingly. No further corrective action was taken.

Three of the five containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601806
Project ID: Aliso Canyon / 603287048

Date Received: 4/6/2016
Time Received: 09:50

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601806-001	Air	4/4/2016	13:12	CC00137	-6.40	3.68	X
P1601806-002	Air	4/4/2016	14:52	CC00187	-0.59	4.21	X
P1601806-003	Air	4/4/2016	15:15	CC00185	-6.43	3.63	X
P1601806-004	Air	4/4/2016	16:58	AC00612	-7.14	3.78	X
P1601806-005	Air	4/4/2016	16:55	AS00209	-1.84	3.90	X

P1601806

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg / Hovanes Deteyan

Rotameter: n/a Serial # : n/a Expiration Date: n/a

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
1	51-SU Residence ID Number – SU ~~219-SU~~	Summa Entech 10153	TO-15 0.10 ug/m³ 75	-26	-9	1416	1312			
				Avg:						
2	53-SU-S	Restek 1393		-28	0	1521	1452			~4 ft Kitchen Counter
				Avg:						Kitchen table ~3.5ft tall. West side of home.
3	81-SU	Restek 3650		-29.0	-12	1629	1515			
				Avg:						Kitchen counter, ~4ft tall
4	13-SU	ALS canister 02033	-30	-30	-15	1743	1658			
				Avg:						Dining Rm table. ~3.5 ft tall - NW area of home.
5	13-SU-D	Silonite 12365	-28	~~-742~~ Hose kinked	-3	1742	1655			
				Avg:						Dining Rm table ~3.5ft. NW area of home.

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	Date: 4/5/16	Time: 1735	Received by:	Date: 4/5/16	Time: 1737
Relinquished by:	Date: 4/6/16	Time: 920	Received by:	Date: 4/6/16	Time: 920
Relinquished by:	Date: 4/6/16	Time: 950	Received by:	Date: 4/6/16	Time: 950

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601806

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/6/16 Date opened: 4/6/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601806-001.01	Canister					
P1601806-002.01	Canister					
P1601806-003.01	Canister					
P1601806-004.01	6.0 L Ambient Can					
P1601806-005.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00137

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.40 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.9**	1.1	0.31	**1.7**	0.64	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.38	**0.38**	0.22	0.076	
74-87-3	Chloromethane	ND	0.44	0.31	ND	0.21	0.15	**V**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.060	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.086	0.082	
106-99-0	1,3-Butadiene	ND	0.44	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.44	0.21	ND	0.11	0.053	
75-00-3	Chloroethane	ND	0.44	0.19	ND	0.17	0.073	
64-17-5	Ethanol	**77**	11	1.8	**41**	5.9	0.94	
75-05-8	Acetonitrile	ND	1.1	0.40	ND	0.66	0.24	
107-02-8	Acrolein	**1.3**	4.4	0.38	**0.55**	1.9	0.16	**J**
67-64-1	Acetone	**17**	11	1.7	**7.1**	4.7	0.72	
75-69-4	Trichlorofluoromethane	**1.0**	0.22	0.13	**0.18**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.3**	11	0.93	**1.3**	4.5	0.38	**J**
107-13-1	Acrylonitrile	ND	1.1	0.38	ND	0.51	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.21	ND	0.056	0.052	
75-09-2	Methylene Chloride	**42**	1.1	0.38	**12**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.071	0.054	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.22	0.18	**0.062**	0.029	0.023	
75-15-0	Carbon Disulfide	ND	11	0.33	ND	3.5	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.051	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.055	0.043	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.21	ND	0.061	0.057	
108-05-4	Vinyl Acetate	ND	11	1.4	ND	3.1	0.41	
78-93-3	2-Butanone (MEK)	**1.4**	11	0.46	**0.48**	3.7	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00137

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.40 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.051	
141-78-6	Ethyl Acetate	**8.6**	2.2	0.77	**2.4**	0.61	0.21	
110-54-3	n-Hexane	**0.36**	1.1	0.33	**0.10**	0.31	0.094	**J**
67-66-3	Chloroform	**0.27**	0.22	0.20	**0.056**	0.045	0.040	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.44	ND	0.37	0.15	
107-06-2	1,2-Dichloroethane	**0.72**	0.22	0.14	**0.18**	0.055	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.041	0.030	
71-43-2	Benzene	**0.38**	0.22	0.17	**0.12**	0.069	0.055	
56-23-5	Carbon Tetrachloride	**0.41**	0.22	0.19	**0.065**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.64	ND	0.64	0.19	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.048	0.040	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.022	
79-01-6	Trichloroethene	ND	0.22	0.20	ND	0.041	0.037	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.31	0.098	
80-62-6	Methyl Methacrylate	ND	2.2	0.69	ND	0.54	0.17	
142-82-5	n-Heptane	ND	1.1	0.38	ND	0.27	0.092	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.068	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.35	ND	0.27	0.086	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.078	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.041	0.032	
108-88-3	Toluene	**1.1**	1.1	0.38	**0.30**	0.29	0.10	
591-78-6	2-Hexanone	ND	1.1	0.35	ND	0.27	0.086	
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.024	
123-86-4	n-Butyl Acetate	ND	1.1	0.35	ND	0.23	0.074	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00137

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.40 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.40	ND	0.24	0.085	
127-18-4	Tetrachloroethene	ND	0.22	0.16	ND	0.033	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.048	0.040	
100-41-4	Ethylbenzene	ND	1.1	0.35	ND	0.25	0.081	
179601-23-1	m,p-Xylenes	ND	1.1	0.64	ND	0.25	0.15	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	ND	1.1	0.33	ND	0.26	0.078	
95-47-6	o-Xylene	ND	1.1	0.33	ND	0.25	0.076	
111-84-2	n-Nonane	ND	1.1	0.33	ND	0.21	0.063	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.19	ND	0.032	0.027	
98-82-8	Cumene	ND	1.1	0.33	ND	0.22	0.067	
80-56-8	alpha-Pinene	**2.2**	1.1	0.31	**0.40**	0.20	0.056	
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.072	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.072	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.072	
95-63-6	1,2,4-Trimethylbenzene	**0.36**	1.1	0.33	**0.074**	0.22	0.067	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.037	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.17	ND	0.037	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.21	ND	0.037	0.034	
5989-27-5	d-Limonene	**7.6**	1.1	0.31	**1.4**	0.20	0.056	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.11	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.048	
91-20-3	Naphthalene	ND	1.1	0.40	ND	0.21	0.076	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/6/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/8/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00137		

Initial Pressure (psig): -6.40 Final Pressure (psig): 3.68

Canister Dilution Factor: 2.21

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.86	Isobutane	**120**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00187

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.59 Final Pressure (psig): 4.21

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.0**	0.67	0.19	**2.3**	0.39	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.67	0.23	**0.38**	0.14	0.046	
74-87-3	Chloromethane	**0.24**	0.27	0.19	**0.12**	0.13	0.091	**J, V**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	0.25	ND	0.096	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.13	ND	0.052	0.050	
106-99-0	1,3-Butadiene	ND	0.27	0.19	ND	0.12	0.085	
74-83-9	Bromomethane	ND	0.27	0.12	ND	0.069	0.032	
75-00-3	Chloroethane	ND	0.27	0.12	ND	0.10	0.044	
64-17-5	Ethanol	**18**	6.7	1.1	**9.7**	3.6	0.57	
75-05-8	Acetonitrile	**0.27**	0.67	0.24	**0.16**	0.40	0.14	**J**
107-02-8	Acrolein	**2.1**	2.7	0.23	**0.91**	1.2	0.099	**J**
67-64-1	Acetone	**17**	6.7	1.0	**7.2**	2.8	0.43	
75-69-4	Trichlorofluoromethane	**0.99**	0.13	0.076	**0.18**	0.024	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.5**	6.7	0.56	**1.8**	2.7	0.23	**J**
107-13-1	Acrylonitrile	ND	0.67	0.23	ND	0.31	0.11	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-09-2	Methylene Chloride	**560**	0.67	0.23	**160**	0.19	0.066	**E**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.043	0.033	
76-13-1	Trichlorotrifluoroethane	**0.38**	0.13	0.11	**0.050**	0.017	0.014	
75-15-0	Carbon Disulfide	**0.72**	6.7	0.20	**0.23**	2.2	0.065	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-34-3	1,1-Dichloroethane	ND	0.13	0.11	ND	0.033	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.037	0.035	
108-05-4	Vinyl Acetate	**2.8**	6.7	0.87	**0.79**	1.9	0.25	**J**
78-93-3	2-Butanone (MEK)	**2.0**	6.7	0.28	**0.67**	2.3	0.095	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
E = Estimated; concentration exceeded calibration range.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00187

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.59 Final Pressure (psig): 4.21

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
141-78-6	Ethyl Acetate	**3.2**	1.3	0.47	**0.89**	0.37	0.13	
110-54-3	n-Hexane	ND	0.67	0.20	ND	0.19	0.057	
67-66-3	Chloroform	**0.13**	0.13	0.12	**0.026**	0.027	0.024	**J**
109-99-9	Tetrahydrofuran (THF)	ND	0.67	0.27	ND	0.23	0.091	
107-06-2	1,2-Dichloroethane	**0.27**	0.13	0.083	**0.067**	0.033	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.099	ND	0.025	0.018	
71-43-2	Benzene	**0.25**	0.13	0.11	**0.078**	0.042	0.033	
56-23-5	Carbon Tetrachloride	**0.47**	0.13	0.12	**0.075**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.39	ND	0.39	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	ND	0.13	0.091	ND	0.020	0.014	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.025	0.022	
123-91-1	1,4-Dioxane	ND	0.67	0.21	ND	0.19	0.060	
80-62-6	Methyl Methacrylate	ND	1.3	0.42	ND	0.33	0.10	
142-82-5	n-Heptane	ND	0.67	0.23	ND	0.16	0.056	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	0.19	ND	0.15	0.041	
108-10-1	4-Methyl-2-pentanone	ND	0.67	0.21	ND	0.16	0.052	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	0.21	ND	0.15	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.11	ND	0.025	0.020	
108-88-3	Toluene	**0.86**	0.67	0.23	**0.23**	0.18	0.060	
591-78-6	2-Hexanone	ND	0.67	0.21	ND	0.16	0.052	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.016	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.015	
123-86-4	n-Butyl Acetate	**0.23**	0.67	0.21	**0.047**	0.14	0.045	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00187

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.59 Final Pressure (psig): 4.21

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.67	0.24	ND	0.14	0.052	
127-18-4	Tetrachloroethene	**0.24**	0.13	0.096	**0.036**	0.020	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.029	0.024	
100-41-4	Ethylbenzene	ND	0.67	0.21	ND	0.15	0.049	
179601-23-1	m,p-Xylenes	ND	0.67	0.39	ND	0.15	0.090	
75-25-2	Bromoform	ND	0.67	0.20	ND	0.065	0.019	
100-42-5	Styrene	ND	0.67	0.20	ND	0.16	0.047	
95-47-6	o-Xylene	ND	0.67	0.20	ND	0.15	0.046	
111-84-2	n-Nonane	ND	0.67	0.20	ND	0.13	0.038	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.020	0.016	
98-82-8	Cumene	ND	0.67	0.20	ND	0.14	0.041	
80-56-8	alpha-Pinene	**1.4**	0.67	0.19	**0.26**	0.12	0.034	
103-65-1	n-Propylbenzene	ND	0.67	0.21	ND	0.14	0.044	
622-96-8	4-Ethyltoluene	ND	0.67	0.21	ND	0.14	0.044	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	0.21	ND	0.14	0.044	
95-63-6	1,2,4-Trimethylbenzene	ND	0.67	0.20	ND	0.14	0.041	
100-44-7	Benzyl Chloride	ND	0.67	0.15	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.099	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.10	ND	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.021	
5989-27-5	d-Limonene	**0.89**	0.67	0.19	**0.16**	0.12	0.034	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	0.13	ND	0.069	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.67	0.21	ND	0.090	0.029	
91-20-3	Naphthalene	ND	0.67	0.24	ND	0.13	0.046	
87-68-3	Hexachlorobutadiene	ND	0.67	0.19	ND	0.063	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00185

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/8 - 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -6.43 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**160**	1.1	0.31	**93**	0.65	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	1.1	0.38	**0.37**	0.22	0.076	
74-87-3	Chloromethane	ND	0.44	0.31	ND	0.22	0.15	**V**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.060	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.087	0.083	
106-99-0	1,3-Butadiene	ND	0.44	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.44	0.21	ND	0.11	0.053	
75-00-3	Chloroethane	ND	0.44	0.19	ND	0.17	0.073	
64-17-5	Ethanol	**340**	11	1.8	**180**	5.9	0.94	
75-05-8	Acetonitrile	**0.53**	1.1	0.40	**0.31**	0.66	0.24	**J**
107-02-8	Acrolein	**4.0**	4.4	0.38	**1.7**	1.9	0.16	**J**
67-64-1	Acetone	**720**	11	1.7	**300**	4.7	0.72	
75-69-4	Trichlorofluoromethane	**0.95**	0.22	0.13	**0.17**	0.040	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**170**	11	0.93	**68**	4.5	0.38	
107-13-1	Acrylonitrile	ND	1.1	0.38	ND	0.51	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.21	ND	0.056	0.052	
75-09-2	Methylene Chloride	**220**	1.1	0.38	**63**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.071	0.054	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.22	0.18	**0.059**	0.029	0.023	
75-15-0	Carbon Disulfide	**1.4**	11	0.33	**0.46**	3.6	0.11	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.051	
75-34-3	1,1-Dichloroethane	ND	0.22	0.18	ND	0.055	0.043	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.21	ND	0.062	0.057	
108-05-4	Vinyl Acetate	**6.6**	11	1.4	**1.9**	3.2	0.41	**J**
78-93-3	2-Butanone (MEK)	**8.6**	11	0.47	**2.9**	3.8	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00185

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8 - 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -6.43 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.052	
141-78-6	Ethyl Acetate	**10**	2.2	0.78	**2.8**	0.62	0.22	
110-54-3	n-Hexane	**0.60**	1.1	0.33	**0.17**	0.32	0.095	**J**
67-66-3	Chloroform	**0.34**	0.22	0.20	**0.070**	0.045	0.040	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.44	ND	0.38	0.15	
107-06-2	1,2-Dichloroethane	**6.9**	0.22	0.14	**1.7**	0.055	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.041	0.030	
71-43-2	Benzene	**3.0**	0.22	0.18	**0.94**	0.070	0.055	
56-23-5	Carbon Tetrachloride	**0.41**	0.22	0.19	**0.065**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.64	ND	0.65	0.19	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.048	0.040	
75-27-4	Bromodichloromethane	**0.32**	0.22	0.15	**0.047**	0.033	0.023	
79-01-6	Trichloroethene	**1.6**	0.22	0.20	**0.30**	0.041	0.037	
123-91-1	1,4-Dioxane	ND	1.1	0.36	ND	0.31	0.099	
80-62-6	Methyl Methacrylate	ND	2.2	0.69	ND	0.54	0.17	
142-82-5	n-Heptane	**1.1**	1.1	0.38	**0.26**	0.27	0.092	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.068	
108-10-1	4-Methyl-2-pentanone	**0.59**	1.1	0.36	**0.15**	0.27	0.087	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.36	ND	0.24	0.078	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.041	0.033	
108-88-3	Toluene	**21**	1.1	0.38	**5.5**	0.29	0.10	
591-78-6	2-Hexanone	**1.0**	1.1	0.36	**0.24**	0.27	0.087	**J**
124-48-1	Dibromochloromethane	**0.87**	0.22	0.19	**0.10**	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.025	
123-86-4	n-Butyl Acetate	**2.9**	1.1	0.36	**0.61**	0.23	0.075	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00185

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/8 - 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -6.43 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.22

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.59**	1.1	0.40	**0.13**	0.24	0.086	**J**
127-18-4	Tetrachloroethene	**5.7**	0.22	0.16	**0.85**	0.033	0.024	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.048	0.040	
100-41-4	Ethylbenzene	**1.0**	1.1	0.36	**0.23**	0.26	0.082	**J**
179601-23-1	m,p-Xylenes	**1.4**	1.1	0.64	**0.31**	0.26	0.15	
75-25-2	Bromoform	**0.82**	1.1	0.33	**0.080**	0.11	0.032	**J**
100-42-5	Styrene	**2.0**	1.1	0.33	**0.46**	0.26	0.078	
95-47-6	o-Xylene	**3.0**	1.1	0.33	**0.68**	0.26	0.077	
111-84-2	n-Nonane	**0.34**	1.1	0.33	**0.065**	0.21	0.064	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.19	ND	0.032	0.027	
98-82-8	Cumene	**290**	11	3.3	**58**	2.3	0.68	**D**
80-56-8	alpha-Pinene	**9.0**	1.1	0.31	**1.6**	0.20	0.056	
103-65-1	n-Propylbenzene	ND	1.1	0.36	ND	0.23	0.072	
622-96-8	4-Ethyltoluene	ND	1.1	0.36	ND	0.23	0.072	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.36	ND	0.23	0.072	
95-63-6	1,2,4-Trimethylbenzene	**0.38**	1.1	0.33	**0.078**	0.23	0.068	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.037	0.027	
106-46-7	1,4-Dichlorobenzene	**0.50**	0.22	0.17	**0.083**	0.037	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.21	ND	0.037	0.034	
5989-27-5	d-Limonene	**41**	1.1	0.31	**7.3**	0.20	0.056	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.11	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.36	ND	0.15	0.048	
91-20-3	Naphthalene	ND	1.1	0.40	ND	0.21	0.076	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/6/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/8 - 4/9/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	CC00185		

Initial Pressure (psig): -6.43 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.22

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.85	Isobutane	**120**	
20.90	Acetophenone	**130**	
21.11	N,N,2-Trimethylbenzenamine	**46**	
21.15	alpha-Cumyl Alcohol	**380**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00612

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.14 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	1.2	0.34	**1.4**	0.71	0.20	
75-71-8	Dichlorodifluoromethane (CFC 12)	**4.4**	1.2	0.41	**0.88**	0.25	0.084	
74-87-3	Chloromethane	**0.38**	0.49	0.34	**0.19**	0.24	0.17	**J, V**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.46	ND	0.17	0.066	
75-01-4	Vinyl Chloride	ND	0.24	0.23	ND	0.095	0.091	
106-99-0	1,3-Butadiene	ND	0.49	0.34	ND	0.22	0.15	
74-83-9	Bromomethane	ND	0.49	0.23	ND	0.13	0.058	
75-00-3	Chloroethane	ND	0.49	0.21	ND	0.19	0.080	
64-17-5	Ethanol	**17**	12	2.0	**9.2**	6.5	1.0	
75-05-8	Acetonitrile	**5.0**	1.2	0.44	**3.0**	0.73	0.26	
107-02-8	Acrolein	**1.4**	4.9	0.41	**0.62**	2.1	0.18	**J**
67-64-1	Acetone	**25**	12	1.9	**11**	5.1	0.79	
75-69-4	Trichlorofluoromethane	**2.4**	0.24	0.14	**0.43**	0.043	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.1**	12	1.0	**0.86**	5.0	0.42	**J**
107-13-1	Acrylonitrile	ND	1.2	0.41	ND	0.56	0.19	
75-35-4	1,1-Dichloroethene	ND	0.24	0.23	ND	0.062	0.057	
75-09-2	Methylene Chloride	**3.2**	1.2	0.41	**0.92**	0.35	0.12	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.24	0.19	ND	0.078	0.059	
76-13-1	Trichlorotrifluoroethane	**1.1**	0.24	0.20	**0.15**	0.032	0.025	
75-15-0	Carbon Disulfide	**0.85**	12	0.37	**0.27**	3.9	0.12	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.24	0.22	ND	0.062	0.056	
75-34-3	1,1-Dichloroethane	ND	0.24	0.19	ND	0.060	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.24	0.23	ND	0.068	0.063	
108-05-4	Vinyl Acetate	ND	12	1.6	ND	3.5	0.45	
78-93-3	2-Butanone (MEK)	**1.3**	12	0.51	**0.44**	4.1	0.17	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC00612

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.14 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.24	0.22	ND	0.062	0.057	
141-78-6	Ethyl Acetate	**3.7**	2.4	0.85	**1.0**	0.68	0.24	
110-54-3	n-Hexane	**3.5**	1.2	0.37	**0.99**	0.35	0.10	
67-66-3	Chloroform	**0.22**	0.24	0.22	**0.046**	0.050	0.044	**J**
109-99-9	Tetrahydrofuran (THF)	**0.68**	1.2	0.49	**0.23**	0.41	0.17	**J**
107-06-2	1,2-Dichloroethane	**0.26**	0.24	0.15	**0.064**	0.060	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.24	0.18	ND	0.045	0.033	
71-43-2	Benzene	**0.70**	0.24	0.19	**0.22**	0.076	0.060	
56-23-5	Carbon Tetrachloride	**1.0**	0.24	0.21	**0.16**	0.039	0.033	
110-82-7	Cyclohexane	ND	2.4	0.71	ND	0.71	0.21	
78-87-5	1,2-Dichloropropane	ND	0.24	0.20	ND	0.053	0.044	
75-27-4	Bromodichloromethane	ND	0.24	0.17	ND	0.036	0.025	
79-01-6	Trichloroethene	ND	0.24	0.22	ND	0.045	0.040	
123-91-1	1,4-Dioxane	ND	1.2	0.39	ND	0.34	0.11	
80-62-6	Methyl Methacrylate	ND	2.4	0.76	ND	0.60	0.18	
142-82-5	n-Heptane	**0.49**	1.2	0.41	**0.12**	0.30	0.10	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.34	ND	0.27	0.075	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.39	ND	0.30	0.095	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.39	ND	0.27	0.086	
79-00-5	1,1,2-Trichloroethane	ND	0.24	0.20	ND	0.045	0.036	
108-88-3	Toluene	**41**	1.2	0.41	**11**	0.32	0.11	
591-78-6	2-Hexanone	ND	1.2	0.39	ND	0.30	0.095	
124-48-1	Dibromochloromethane	ND	0.24	0.21	ND	0.029	0.024	
106-93-4	1,2-Dibromoethane	ND	0.24	0.21	ND	0.032	0.027	
123-86-4	n-Butyl Acetate	ND	1.2	0.39	ND	0.26	0.082	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00612

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.14 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.44	ND	0.26	0.094	
127-18-4	Tetrachloroethene	ND	0.24	0.18	ND	0.036	0.026	
108-90-7	Chlorobenzene	ND	0.24	0.20	ND	0.053	0.044	
100-41-4	Ethylbenzene	**0.71**	1.2	0.39	**0.16**	0.28	0.090	**J**
179601-23-1	m,p-Xylenes	**2.5**	1.2	0.71	**0.58**	0.28	0.16	
75-25-2	Bromoform	ND	1.2	0.37	ND	0.12	0.035	
100-42-5	Styrene	**0.45**	1.2	0.37	**0.11**	0.29	0.086	**J**
95-47-6	o-Xylene	**0.75**	1.2	0.37	**0.17**	0.28	0.084	**J**
111-84-2	n-Nonane	ND	1.2	0.37	ND	0.23	0.070	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.24	0.20	ND	0.036	0.030	
98-82-8	Cumene	ND	1.2	0.37	ND	0.25	0.074	
80-56-8	alpha-Pinene	**2.6**	1.2	0.34	**0.47**	0.22	0.061	
103-65-1	n-Propylbenzene	ND	1.2	0.39	ND	0.25	0.079	
622-96-8	4-Ethyltoluene	ND	1.2	0.39	ND	0.25	0.079	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.39	ND	0.25	0.079	
95-63-6	1,2,4-Trimethylbenzene	**0.61**	1.2	0.37	**0.12**	0.25	0.074	**J**
100-44-7	Benzyl Chloride	ND	1.2	0.27	ND	0.24	0.052	
541-73-1	1,3-Dichlorobenzene	ND	0.24	0.18	ND	0.041	0.030	
106-46-7	1,4-Dichlorobenzene	ND	0.24	0.19	ND	0.041	0.031	
95-50-1	1,2-Dichlorobenzene	ND	0.24	0.23	ND	0.041	0.038	
5989-27-5	d-Limonene	**2.8**	1.2	0.34	**0.50**	0.22	0.061	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.24	ND	0.13	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.39	ND	0.16	0.053	
91-20-3	Naphthalene	**0.51**	1.2	0.44	**0.097**	0.23	0.084	**J**
87-68-3	Hexachlorobutadiene	ND	1.2	0.34	ND	0.11	0.032	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P1601806-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00209

Date Collected: 4/4/16
Date Received: 4/6/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.84 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**31**	0.73	0.20	**18**	0.42	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	0.73	0.25	**0.36**	0.15	0.050	
74-87-3	Chloromethane	ND	0.29	0.20	ND	0.14	0.098	**V**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	0.28	ND	0.10	0.039	
75-01-4	Vinyl Chloride	ND	0.15	0.14	ND	0.057	0.054	
106-99-0	1,3-Butadiene	ND	0.29	0.20	ND	0.13	0.092	
74-83-9	Bromomethane	ND	0.29	0.13	ND	0.075	0.035	
75-00-3	Chloroethane	ND	0.29	0.13	ND	0.11	0.048	
64-17-5	Ethanol	**360**	7.3	1.2	**190**	3.8	0.62	
75-05-8	Acetonitrile	**0.54**	0.73	0.26	**0.32**	0.43	0.16	**J**
107-02-8	Acrolein	**1.4**	2.9	0.25	**0.62**	1.3	0.11	**J**
67-64-1	Acetone	**37**	7.3	1.1	**15**	3.1	0.47	
75-69-4	Trichlorofluoromethane	**0.96**	0.15	0.083	**0.17**	0.026	0.015	
67-63-0	2-Propanol (Isopropyl Alcohol)	**30**	7.3	0.61	**12**	3.0	0.25	
107-13-1	Acrylonitrile	ND	0.73	0.25	ND	0.33	0.11	
75-35-4	1,1-Dichloroethene	ND	0.15	0.13	ND	0.037	0.034	
75-09-2	Methylene Chloride	**110**	0.73	0.25	**31**	0.21	0.071	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.11	ND	0.046	0.035	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.15	0.12	**0.062**	0.019	0.015	
75-15-0	Carbon Disulfide	ND	7.3	0.22	ND	2.3	0.070	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.13	ND	0.037	0.033	
75-34-3	1,1-Dichloroethane	ND	0.15	0.11	ND	0.036	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.13	ND	0.040	0.037	
108-05-4	Vinyl Acetate	**1.7**	7.3	0.94	**0.48**	2.1	0.27	**J**
78-93-3	2-Butanone (MEK)	**2.2**	7.3	0.30	**0.75**	2.5	0.10	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00209

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.84 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.13	ND	0.037	0.034	
141-78-6	Ethyl Acetate	**28**	1.5	0.51	**7.9**	0.40	0.14	
110-54-3	n-Hexane	**0.44**	0.73	0.22	**0.12**	0.21	0.062	**J**
67-66-3	Chloroform	**1.3**	0.15	0.13	**0.28**	0.030	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.73	0.29	ND	0.25	0.098	
107-06-2	1,2-Dichloroethane	**1.8**	0.15	0.090	**0.44**	0.036	0.022	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.11	ND	0.027	0.020	
71-43-2	Benzene	**0.52**	0.15	0.11	**0.16**	0.045	0.036	
56-23-5	Carbon Tetrachloride	**0.68**	0.15	0.12	**0.11**	0.023	0.020	
110-82-7	Cyclohexane	ND	1.5	0.42	ND	0.42	0.12	
78-87-5	1,2-Dichloropropane	ND	0.15	0.12	ND	0.031	0.026	
75-27-4	Bromodichloromethane	**0.22**	0.15	0.099	**0.032**	0.022	0.015	
79-01-6	Trichloroethene	ND	0.15	0.13	ND	0.027	0.024	
123-91-1	1,4-Dioxane	ND	0.73	0.23	ND	0.20	0.064	
80-62-6	Methyl Methacrylate	ND	1.5	0.45	ND	0.35	0.11	
142-82-5	n-Heptane	**0.60**	0.73	0.25	**0.15**	0.18	0.060	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.20	ND	0.16	0.045	
108-10-1	4-Methyl-2-pentanone	**0.39**	0.73	0.23	**0.096**	0.18	0.057	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.23	ND	0.16	0.051	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.12	ND	0.027	0.021	
108-88-3	Toluene	**4.4**	0.73	0.25	**1.2**	0.19	0.065	
591-78-6	2-Hexanone	ND	0.73	0.23	ND	0.18	0.057	
124-48-1	Dibromochloromethane	**0.43**	0.15	0.12	**0.050**	0.017	0.014	
106-93-4	1,2-Dibromoethane	ND	0.15	0.12	ND	0.019	0.016	
123-86-4	n-Butyl Acetate	**8.8**	0.73	0.23	**1.9**	0.15	0.049	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00209

Date Collected: 4/4/16

Date Received: 4/6/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.84 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.73	0.26	ND	0.16	0.056	
127-18-4	Tetrachloroethene	ND	0.15	0.10	ND	0.021	0.015	
108-90-7	Chlorobenzene	ND	0.15	0.12	ND	0.031	0.026	
100-41-4	Ethylbenzene	**0.34**	0.73	0.23	**0.078**	0.17	0.053	**J**
179601-23-1	m,p-Xylenes	**0.93**	0.73	0.42	**0.22**	0.17	0.097	
75-25-2	Bromoform	**0.39**	0.73	0.22	**0.038**	0.070	0.021	**J**
100-42-5	Styrene	**0.44**	0.73	0.22	**0.10**	0.17	0.051	**J**
95-47-6	o-Xylene	**0.36**	0.73	0.22	**0.082**	0.17	0.050	**J**
111-84-2	n-Nonane	ND	0.73	0.22	ND	0.14	0.041	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.12	ND	0.021	0.018	
98-82-8	Cumene	ND	0.73	0.22	ND	0.15	0.044	
80-56-8	alpha-Pinene	**2.0**	0.73	0.20	**0.35**	0.13	0.036	
103-65-1	n-Propylbenzene	ND	0.73	0.23	ND	0.15	0.047	
622-96-8	4-Ethyltoluene	ND	0.73	0.23	ND	0.15	0.047	
108-67-8	1,3,5-Trimethylbenzene	ND	0.73	0.23	ND	0.15	0.047	
95-63-6	1,2,4-Trimethylbenzene	**0.42**	0.73	0.22	**0.085**	0.15	0.044	**J**
100-44-7	Benzyl Chloride	ND	0.73	0.16	ND	0.14	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.11	ND	0.024	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.15	0.11	ND	0.024	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.13	ND	0.024	0.022	
5989-27-5	d-Limonene	**28**	0.73	0.20	**5.0**	0.13	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.73	0.14	ND	0.075	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.73	0.23	ND	0.098	0.031	
91-20-3	Naphthalene	**0.99**	0.73	0.26	**0.19**	0.14	0.050	
87-68-3	Hexachlorobutadiene	ND	0.73	0.20	ND	0.068	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P1601806-005

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/4/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/6/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/9/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00209		

Initial Pressure (psig): -1.84 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.45

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.04	1,1-Difluoroethane	**36**	
4.21	Propane	**110**	
4.89	Isobutane	**830**	
5.44	n-Butane	**330**	
21.89	unknown siloxane	**100**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160408-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/8/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	**V**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P160408-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P160408-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/8/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160409-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601806

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 4/4/16
Analyst: Lusine Hakobyan Date(s) Received: 4/6/16
Sample Type: Canister(s) Date(s) Analyzed: 4/8 - 4/9/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
[redacted]	P160408-MB	**97**	**101**	**105**	70-130	
	P160409-MB	**97**	**102**	**105**	70-130	
	P160408-LCS	**95**	**101**	**105**	70-130	
	P160409-LCS	**94**	**101**	**106**	70-130	
	P1601806-001	**96**	**101**	**105**	70-130	
	P1601806-002	**95**	**101**	**105**	70-130	
	P1601806-003	**95**	**101**	**106**	70-130	
	P1601806-004	**97**	**101**	**106**	70-130	
	P1601806-005	**94**	**100**	**104**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**194**	**99**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**126**	**63**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**156**	**76**	65-122	
75-01-4	Vinyl Chloride	200	**165**	**83**	65-128	
106-99-0	1,3-Butadiene	206	**171**	**83**	62-143	
74-83-9	Bromomethane	202	**188**	**93**	65-130	
75-00-3	Chloroethane	200	**188**	**94**	69-126	
64-17-5	Ethanol	998	**861**	**86**	57-126	
75-05-8	Acetonitrile	212	**189**	**89**	51-134	
107-02-8	Acrolein	214	**186**	**87**	55-146	
67-64-1	Acetone	1,080	**920**	**85**	57-120	
75-69-4	Trichlorofluoromethane	216	**159**	**74**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**365**	**87**	59-129	
107-13-1	Acrylonitrile	212	**187**	**88**	64-136	
75-35-4	1,1-Dichloroethene	216	**192**	**89**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**188**	**86**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**188**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**162**	**77**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**190**	**90**	69-129	
75-34-3	1,1-Dichloroethane	212	**180**	**85**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**179**	**83**	55-128	
108-05-4	Vinyl Acetate	1,040	**963**	**93**	66-140	
78-93-3	2-Butanone (MEK)	220	**200**	**91**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**191**	**88**	65-125	
141-78-6	Ethyl Acetate	428	**384**	**90**	64-132	
110-54-3	n-Hexane	212	**177**	**83**	58-126	
67-66-3	Chloroform	224	**181**	**81**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**200**	**91**	64-123	
107-06-2	1,2-Dichloroethane	214	**176**	**82**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**173**	**82**	68-120	
71-43-2	Benzene	226	**181**	**80**	61-110	
56-23-5	Carbon Tetrachloride	230	**187**	**81**	65-137	
110-82-7	Cyclohexane	424	**358**	**84**	68-122	
78-87-5	1,2-Dichloropropane	216	**189**	**88**	67-122	
75-27-4	Bromodichloromethane	218	**186**	**85**	71-124	
79-01-6	Trichloroethene	216	**174**	**81**	71-121	
123-91-1	1,4-Dioxane	210	**194**	**92**	67-122	
80-62-6	Methyl Methacrylate	422	**373**	**88**	76-130	
142-82-5	n-Heptane	216	**184**	**85**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**187**	**90**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**196**	**89**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**192**	**91**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**185**	**86**	73-121	
108-88-3	Toluene	218	**178**	**82**	67-117	
591-78-6	2-Hexanone	220	**196**	**89**	59-128	
124-48-1	Dibromochloromethane	220	**199**	**90**	73-132	
106-93-4	1,2-Dibromoethane	218	**193**	**89**	73-128	
123-86-4	n-Butyl Acetate	226	**199**	**88**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160408-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**188**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**188**	**85**	68-120	
100-41-4	Ethylbenzene	218	**183**	**84**	69-123	
179601-23-1	m,p-Xylenes	428	**358**	**84**	67-125	
75-25-2	Bromoform	228	**204**	**89**	68-153	
100-42-5	Styrene	222	**189**	**85**	68-132	
95-47-6	o-Xylene	210	**176**	**84**	67-124	
111-84-2	n-Nonane	204	**174**	**85**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**187**	**89**	72-128	
98-82-8	Cumene	208	**188**	**90**	67-124	
80-56-8	alpha-Pinene	212	**184**	**87**	67-129	
103-65-1	n-Propylbenzene	204	**175**	**86**	67-125	
622-96-8	4-Ethyltoluene	214	**191**	**89**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**177**	**83**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**184**	**84**	62-134	
100-44-7	Benzyl Chloride	220	**221**	**100**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**196**	**86**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**185**	**89**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**197**	**90**	62-134	
5989-27-5	d-Limonene	210	**190**	**90**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**219**	**100**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**202**	**88**	60-145	
91-20-3	Naphthalene	218	**179**	**82**	56-158	
87-68-3	Hexachlorobutadiene	230	**198**	**86**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**192**	**98**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**150**	**80**	65-117	
74-87-3	Chloromethane	200	**128**	**64**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**159**	**78**	65-122	
75-01-4	Vinyl Chloride	200	**163**	**82**	65-128	
106-99-0	1,3-Butadiene	206	**174**	**84**	62-143	
74-83-9	Bromomethane	202	**190**	**94**	65-130	
75-00-3	Chloroethane	200	**187**	**94**	69-126	
64-17-5	Ethanol	998	**849**	**85**	57-126	
75-05-8	Acetonitrile	212	**184**	**87**	51-134	
107-02-8	Acrolein	214	**183**	**86**	55-146	
67-64-1	Acetone	1,080	**896**	**83**	57-120	
75-69-4	Trichlorofluoromethane	216	**155**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**358**	**86**	59-129	
107-13-1	Acrylonitrile	212	**184**	**87**	64-136	
75-35-4	1,1-Dichloroethene	216	**187**	**87**	72-123	
75-09-2	Methylene Chloride	222	**182**	**82**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**181**	**83**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**184**	**84**	68-118	
75-15-0	Carbon Disulfide	210	**158**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**184**	**88**	69-129	
75-34-3	1,1-Dichloroethane	212	**176**	**83**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**174**	**81**	55-128	
108-05-4	Vinyl Acetate	1,040	**936**	**90**	66-140	
78-93-3	2-Butanone (MEK)	220	**196**	**89**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806

ALS Sample ID: P160409-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**187**	**86**	65-125	
141-78-6	Ethyl Acetate	428	**376**	**88**	64-132	
110-54-3	n-Hexane	212	**173**	**82**	58-126	
67-66-3	Chloroform	224	**177**	**79**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**197**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**171**	**80**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**169**	**80**	68-120	
71-43-2	Benzene	226	**178**	**79**	61-110	
56-23-5	Carbon Tetrachloride	230	**184**	**80**	65-137	
110-82-7	Cyclohexane	424	**352**	**83**	68-122	
78-87-5	1,2-Dichloropropane	216	**184**	**85**	67-122	
75-27-4	Bromodichloromethane	218	**182**	**83**	71-124	
79-01-6	Trichloroethene	216	**172**	**80**	71-121	
123-91-1	1,4-Dioxane	210	**190**	**90**	67-122	
80-62-6	Methyl Methacrylate	422	**366**	**87**	76-130	
142-82-5	n-Heptane	216	**181**	**84**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**183**	**88**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**192**	**87**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**187**	**89**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**182**	**84**	73-121	
108-88-3	Toluene	218	**174**	**80**	67-117	
591-78-6	2-Hexanone	220	**190**	**86**	59-128	
124-48-1	Dibromochloromethane	220	**196**	**89**	73-132	
106-93-4	1,2-Dibromoethane	218	**189**	**87**	73-128	
123-86-4	n-Butyl Acetate	226	**194**	**86**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601806
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**184**	**88**	67-124	
127-18-4	Tetrachloroethene	202	**172**	**85**	65-126	
108-90-7	Chlorobenzene	220	**184**	**84**	68-120	
100-41-4	Ethylbenzene	218	**180**	**83**	69-123	
179601-23-1	m,p-Xylenes	428	**351**	**82**	67-125	
75-25-2	Bromoform	228	**201**	**88**	68-153	
100-42-5	Styrene	222	**186**	**84**	68-132	
95-47-6	o-Xylene	210	**173**	**82**	67-124	
111-84-2	n-Nonane	204	**168**	**82**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**182**	**87**	72-128	
98-82-8	Cumene	208	**185**	**89**	67-124	
80-56-8	alpha-Pinene	212	**181**	**85**	67-129	
103-65-1	n-Propylbenzene	204	**172**	**84**	67-125	
622-96-8	4-Ethyltoluene	214	**187**	**87**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**175**	**82**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**181**	**83**	62-134	
100-44-7	Benzyl Chloride	220	**217**	**99**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**193**	**85**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**183**	**88**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**194**	**88**	62-134	
5989-27-5	d-Limonene	210	**185**	**88**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**214**	**98**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**199**	**87**	60-145	
91-20-3	Naphthalene	218	**177**	**81**	56-158	
87-68-3	Hexachlorobutadiene	230	**197**	**86**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 12, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601830.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 11:13 am, Apr 12, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601830
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601830
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 10:16

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601830-001	Air	4/5/2016	08:25	AC02024	-7.18	3.67	X
P1601830-002	Air	4/5/2016	09:20	AS00532	0.00	3.58	X
P1601830-003	Air	4/5/2016	09:51	AC02149	-6.45	4.13	X
P1601830-004	Air	4/5/2016	10:57	AS00743	-8.67	4.20	X

P1601830

AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/5/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill, Ruben Fernandez, II	
	Rotameter: NA Serial # : NA	Expiration Date: NA	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Pressure in Hg ~~Flow Rate (L/min)~~ Start (~~Pre~~)	End (~~Post~~)	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
59-SU	11	11	-29	+14.5	0850	0825	1415		dining room, can SN #12553 gauge FCR 00093, AO248028-3 at zero before opening
			Avg:						
80-SU-G	11	11	27		0942	0920	1418		dining room, can 14861 gauge SN04129, at zero before open construction going on on opposite side of house
			Avg:						
87-SU	11	11	-30	-14	1018	0951	1400 IF 1413		first floor bedroom can SN #N0672, gauge AO248026-5 zero before open
			Avg:						
88-SU	11	11	-28	-16	1120	1057	1417		first floor bedroom, can SN 10969, gauge #02093, can at zero before open, at 1350 opened extra bolt on flow meter
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Ingrid Zubieta	Date: 4/6/16	Time: 1646	Received by:	Date: 4/6/16	Time: 1654
Relinquished by:	Date: ~~4/6/16~~ 4/7/16	Time: ~~1654~~ 450	Received by:	Date: 4/7/16	Time: 948
Relinquished by:	Date: 4/7/16	Time: 1016	Received by:	Date: 4/7/16	Time: 1016

5 of 29

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601830

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601830-001.01	6.0 L Ambient Can					
P1601830-002.01	6.0 L Silonite Can					
P1601830-003.01	6.0 L Ambient Can					
P1601830-004.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02024

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.18 Final Pressure (psig): 3.67

Canister Dilution Factor: 2.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**5.9**	1.2	0.34	**3.4**	0.71	0.20	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.2	0.41	**0.39**	0.25	0.084	
74-87-3	Chloromethane	**0.63**	0.49	0.34	**0.30**	0.24	0.17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.46	ND	0.17	0.066	
75-01-4	Vinyl Chloride	ND	0.24	0.23	ND	0.095	0.091	
106-99-0	1,3-Butadiene	ND	0.49	0.34	ND	0.22	0.15	
74-83-9	Bromomethane	ND	0.49	0.23	ND	0.13	0.058	
75-00-3	Chloroethane	ND	0.49	0.21	ND	0.19	0.080	
64-17-5	Ethanol	**280**	12	2.0	**150**	6.5	1.0	
75-05-8	Acetonitrile	ND	1.2	0.44	ND	0.73	0.26	
107-02-8	Acrolein	**1.7**	4.9	0.41	**0.75**	2.1	0.18	**J**
67-64-1	Acetone	**37**	12	1.9	**15**	5.1	0.79	
75-69-4	Trichlorofluoromethane	**1.0**	0.24	0.14	**0.18**	0.043	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	**14**	12	1.0	**5.8**	5.0	0.42	
107-13-1	Acrylonitrile	ND	1.2	0.41	ND	0.56	0.19	
75-35-4	1,1-Dichloroethene	ND	0.24	0.23	ND	0.062	0.057	
75-09-2	Methylene Chloride	**24**	1.2	0.41	**7.0**	0.35	0.12	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.24	0.19	ND	0.078	0.059	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.24	0.20	**0.065**	0.032	0.025	
75-15-0	Carbon Disulfide	ND	12	0.37	ND	3.9	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	0.24	0.22	ND	0.062	0.056	
75-34-3	1,1-Dichloroethane	ND	0.24	0.19	ND	0.060	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.24	0.23	ND	0.068	0.063	
108-05-4	Vinyl Acetate	ND	12	1.6	ND	3.5	0.45	
78-93-3	2-Butanone (MEK)	**2.5**	12	0.51	**0.86**	4.1	0.17	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02024

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.18 Final Pressure (psig): 3.67

Canister Dilution Factor: 2.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.24	0.22	ND	0.062	0.057	
141-78-6	Ethyl Acetate	**3.5**	2.4	0.85	**0.98**	0.68	0.24	
110-54-3	n-Hexane	**0.71**	1.2	0.37	**0.20**	0.35	0.10	**J**
67-66-3	Chloroform	ND	0.24	0.22	ND	0.050	0.044	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.49	ND	0.41	0.17	
107-06-2	1,2-Dichloroethane	**0.17**	0.24	0.15	**0.042**	0.060	0.037	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.24	0.18	ND	0.045	0.033	
71-43-2	Benzene	**0.43**	0.24	0.19	**0.13**	0.076	0.060	
56-23-5	Carbon Tetrachloride	**0.37**	0.24	0.21	**0.059**	0.039	0.033	
110-82-7	Cyclohexane	ND	2.4	0.71	ND	0.71	0.21	
78-87-5	1,2-Dichloropropane	ND	0.24	0.20	ND	0.053	0.044	
75-27-4	Bromodichloromethane	ND	0.24	0.17	ND	0.036	0.025	
79-01-6	Trichloroethene	ND	0.24	0.22	ND	0.045	0.040	
123-91-1	1,4-Dioxane	ND	1.2	0.39	ND	0.34	0.11	
80-62-6	Methyl Methacrylate	ND	2.4	0.76	ND	0.60	0.18	
142-82-5	n-Heptane	**0.85**	1.2	0.41	**0.21**	0.30	0.10	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.34	ND	0.27	0.075	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.39	ND	0.30	0.095	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.39	ND	0.27	0.086	
79-00-5	1,1,2-Trichloroethane	ND	0.24	0.20	ND	0.045	0.036	
108-88-3	Toluene	**8.1**	1.2	0.41	**2.2**	0.32	0.11	
591-78-6	2-Hexanone	ND	1.2	0.39	ND	0.30	0.095	
124-48-1	Dibromochloromethane	ND	0.24	0.21	ND	0.029	0.024	
106-93-4	1,2-Dibromoethane	ND	0.24	0.21	ND	0.032	0.027	
123-86-4	n-Butyl Acetate	**1.3**	1.2	0.39	**0.27**	0.26	0.082	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02024

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.18 Final Pressure (psig): 3.67

Canister Dilution Factor: 2.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.44	ND	0.26	0.094	
127-18-4	Tetrachloroethene	ND	0.24	0.18	ND	0.036	0.026	
108-90-7	Chlorobenzene	ND	0.24	0.20	ND	0.053	0.044	
100-41-4	Ethylbenzene	ND	1.2	0.39	ND	0.28	0.090	
179601-23-1	m,p-Xylenes	ND	1.2	0.71	ND	0.28	0.16	
75-25-2	Bromoform	ND	1.2	0.37	ND	0.12	0.035	
100-42-5	Styrene	ND	1.2	0.37	ND	0.29	0.086	
95-47-6	o-Xylene	ND	1.2	0.37	ND	0.28	0.084	
111-84-2	n-Nonane	ND	1.2	0.37	ND	0.23	0.070	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.24	0.20	ND	0.036	0.030	
98-82-8	Cumene	ND	1.2	0.37	ND	0.25	0.074	
80-56-8	alpha-Pinene	**9.0**	1.2	0.34	**1.6**	0.22	0.061	
103-65-1	n-Propylbenzene	ND	1.2	0.39	ND	0.25	0.079	
622-96-8	4-Ethyltoluene	ND	1.2	0.39	ND	0.25	0.079	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.39	ND	0.25	0.079	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.37	ND	0.25	0.074	
100-44-7	Benzyl Chloride	ND	1.2	0.27	ND	0.24	0.052	
541-73-1	1,3-Dichlorobenzene	ND	0.24	0.18	ND	0.041	0.030	
106-46-7	1,4-Dichlorobenzene	ND	0.24	0.19	ND	0.041	0.031	
95-50-1	1,2-Dichlorobenzene	ND	0.24	0.23	ND	0.041	0.038	
5989-27-5	d-Limonene	**8.0**	1.2	0.34	**1.4**	0.22	0.061	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.24	ND	0.13	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.39	ND	0.16	0.053	
91-20-3	Naphthalene	ND	1.2	0.44	ND	0.23	0.084	
87-68-3	Hexachlorobutadiene	ND	1.2	0.34	ND	0.11	0.032	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/7/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/9/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AC02024		

Initial Pressure (psig): -7.18 Final Pressure (psig): 3.67

Canister Dilution Factor: 2.44

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
5.15	n-Butane	**530**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00532

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**9.2**	0.62	0.17	**5.4**	0.36	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.62	0.21	**0.38**	0.13	0.043	
74-87-3	Chloromethane	**0.64**	0.25	0.17	**0.31**	0.12	0.084	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	0.24	ND	0.089	0.034	
75-01-4	Vinyl Chloride	ND	0.12	0.12	ND	0.049	0.046	
106-99-0	1,3-Butadiene	ND	0.25	0.17	ND	0.11	0.079	
74-83-9	Bromomethane	ND	0.25	0.12	ND	0.064	0.030	
75-00-3	Chloroethane	ND	0.25	0.11	ND	0.094	0.041	
64-17-5	Ethanol	**880**	62	9.9	**470**	33	5.3	**D**
75-05-8	Acetonitrile	**0.51**	0.62	0.22	**0.30**	0.37	0.13	**J**
107-02-8	Acrolein	**2.7**	2.5	0.21	**1.2**	1.1	0.092	
67-64-1	Acetone	**60**	6.2	0.95	**25**	2.6	0.40	
75-69-4	Trichlorofluoromethane	**1.1**	0.12	0.071	**0.19**	0.022	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**21**	6.2	0.52	**8.4**	2.5	0.21	
107-13-1	Acrylonitrile	ND	0.62	0.21	ND	0.29	0.097	
75-35-4	1,1-Dichloroethene	ND	0.12	0.12	ND	0.031	0.029	
75-09-2	Methylene Chloride	**560**	6.2	2.1	**160**	1.8	0.61	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	0.094	ND	0.040	0.030	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.12	0.099	**0.062**	0.016	0.013	
75-15-0	Carbon Disulfide	ND	6.2	0.19	ND	2.0	0.060	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	0.11	ND	0.031	0.028	
75-34-3	1,1-Dichloroethane	ND	0.12	0.098	ND	0.031	0.024	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	0.12	ND	0.034	0.032	
108-05-4	Vinyl Acetate	ND	6.2	0.81	ND	1.8	0.23	
78-93-3	2-Butanone (MEK)	**5.5**	6.2	0.26	**1.9**	2.1	0.088	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00532

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	0.11	ND	0.031	0.029	
141-78-6	Ethyl Acetate	**9.8**	1.2	0.43	**2.7**	0.34	0.12	
110-54-3	n-Hexane	**1.5**	0.62	0.19	**0.44**	0.18	0.053	
67-66-3	Chloroform	**0.67**	0.12	0.11	**0.14**	0.025	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.62	0.25	ND	0.21	0.084	
107-06-2	1,2-Dichloroethane	**0.65**	0.12	0.077	**0.16**	0.031	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.12	0.092	ND	0.023	0.017	
71-43-2	Benzene	**1.2**	0.12	0.098	**0.36**	0.039	0.031	
56-23-5	Carbon Tetrachloride	**0.40**	0.12	0.11	**0.064**	0.020	0.017	
110-82-7	Cyclohexane	**0.60**	1.2	0.36	**0.17**	0.36	0.10	**J**
78-87-5	1,2-Dichloropropane	ND	0.12	0.10	ND	0.027	0.022	
75-27-4	Bromodichloromethane	ND	0.12	0.084	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.12	0.11	ND	0.023	0.021	
123-91-1	1,4-Dioxane	ND	0.62	0.20	ND	0.17	0.055	
80-62-6	Methyl Methacrylate	ND	1.2	0.38	ND	0.30	0.094	
142-82-5	n-Heptane	**1.2**	0.62	0.21	**0.29**	0.15	0.051	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	0.17	ND	0.14	0.038	
108-10-1	4-Methyl-2-pentanone	**0.58**	0.62	0.20	**0.14**	0.15	0.048	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	0.20	ND	0.14	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.12	0.099	ND	0.023	0.018	
108-88-3	Toluene	**5.2**	0.62	0.21	**1.4**	0.16	0.056	
591-78-6	2-Hexanone	**0.45**	0.62	0.20	**0.11**	0.15	0.048	**J**
124-48-1	Dibromochloromethane	**0.16**	0.12	0.11	**0.019**	0.015	0.012	
106-93-4	1,2-Dibromoethane	ND	0.12	0.11	ND	0.016	0.014	
123-86-4	n-Butyl Acetate	**2.2**	0.62	0.20	**0.47**	0.13	0.042	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00532

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.75**	0.62	0.22	**0.16**	0.13	0.048	
127-18-4	Tetrachloroethene	**0.34**	0.12	0.089	**0.050**	0.018	0.013	
108-90-7	Chlorobenzene	ND	0.12	0.10	ND	0.027	0.022	
100-41-4	Ethylbenzene	**0.84**	0.62	0.20	**0.19**	0.14	0.046	
179601-23-1	m,p-Xylenes	**2.2**	0.62	0.36	**0.50**	0.14	0.083	
75-25-2	Bromoform	**0.22**	0.62	0.19	**0.021**	0.060	0.018	**J**
100-42-5	Styrene	**0.59**	0.62	0.19	**0.14**	0.15	0.044	**J**
95-47-6	o-Xylene	**0.84**	0.62	0.19	**0.19**	0.14	0.043	
111-84-2	n-Nonane	**1.4**	0.62	0.19	**0.27**	0.12	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	0.10	ND	0.018	0.015	
98-82-8	Cumene	ND	0.62	0.19	ND	0.13	0.038	
80-56-8	alpha-Pinene	**8.5**	0.62	0.17	**1.5**	0.11	0.031	
103-65-1	n-Propylbenzene	ND	0.62	0.20	ND	0.13	0.040	
622-96-8	4-Ethyltoluene	**0.28**	0.62	0.20	**0.058**	0.13	0.040	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.25**	0.62	0.20	**0.051**	0.13	0.040	**J**
95-63-6	1,2,4-Trimethylbenzene	**0.81**	0.62	0.19	**0.17**	0.13	0.038	
100-44-7	Benzyl Chloride	ND	0.62	0.14	ND	0.12	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.12	0.092	ND	0.021	0.015	
106-46-7	1,4-Dichlorobenzene	**0.32**	0.12	0.094	**0.053**	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.12	0.12	ND	0.021	0.019	
5989-27-5	d-Limonene	**120**	0.62	0.17	**21**	0.11	0.031	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	0.12	ND	0.064	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	0.20	ND	0.084	0.027	
91-20-3	Naphthalene	**0.51**	0.62	0.22	**0.097**	0.12	0.043	**J**
87-68-3	Hexachlorobutadiene	ND	0.62	0.17	ND	0.058	0.016	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/7/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/9/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	AS00532		

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
21.99	Unidentified Siloxane	**48**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02149

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.45 Final Pressure (psig): 4.13

Canister Dilution Factor: 2.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**14**	1.1	0.32	**8.2**	0.66	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.39	**0.39**	0.23	0.078	
74-87-3	Chloromethane	**0.81**	0.46	0.32	**0.39**	0.22	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.43	ND	0.16	0.062	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.089	0.085	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.14	
74-83-9	Bromomethane	ND	0.46	0.21	ND	0.12	0.055	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.17	0.075	
64-17-5	Ethanol	**270**	11	1.8	**140**	6.1	0.97	
75-05-8	Acetonitrile	ND	1.1	0.41	ND	0.68	0.24	
107-02-8	Acrolein	**3.6**	4.6	0.39	**1.6**	2.0	0.17	**J**
67-64-1	Acetone	**89**	11	1.8	**37**	4.8	0.74	
75-69-4	Trichlorofluoromethane	**1.0**	0.23	0.13	**0.18**	0.041	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**32**	11	0.96	**13**	4.6	0.39	
107-13-1	Acrylonitrile	ND	1.1	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
75-09-2	Methylene Chloride	**42**	1.1	0.39	**12**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.073	0.055	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.23	0.18	**0.059**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	11	0.34	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.052	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.056	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.063	0.059	
108-05-4	Vinyl Acetate	**5.7**	11	1.5	**1.6**	3.2	0.42	**J**
78-93-3	2-Butanone (MEK)	**3.6**	11	0.48	**1.2**	3.9	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02149

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.45 Final Pressure (psig): 4.13

Canister Dilution Factor: 2.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
141-78-6	Ethyl Acetate	**12**	2.3	0.80	**3.2**	0.63	0.22	
110-54-3	n-Hexane	**1.4**	1.1	0.34	**0.38**	0.32	0.097	
67-66-3	Chloroform	**0.60**	0.23	0.20	**0.12**	0.047	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.46	ND	0.39	0.15	
107-06-2	1,2-Dichloroethane	**0.66**	0.23	0.14	**0.16**	0.056	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**1.5**	0.23	0.18	**0.46**	0.071	0.056	
56-23-5	Carbon Tetrachloride	**0.39**	0.23	0.20	**0.062**	0.036	0.031	
110-82-7	Cyclohexane	**1.3**	2.3	0.66	**0.37**	0.66	0.19	**J**
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.049	0.041	
75-27-4	Bromodichloromethane	**0.23**	0.23	0.16	**0.034**	0.034	0.023	**J**
79-01-6	Trichloroethene	ND	0.23	0.20	ND	0.042	0.038	
123-91-1	1,4-Dioxane	ND	1.1	0.36	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.71	ND	0.56	0.17	
142-82-5	n-Heptane	**0.78**	1.1	0.39	**0.19**	0.28	0.095	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.32	ND	0.25	0.070	
108-10-1	4-Methyl-2-pentanone	**0.82**	1.1	0.36	**0.20**	0.28	0.089	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.36	ND	0.25	0.080	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.033	
108-88-3	Toluene	**3.5**	1.1	0.39	**0.93**	0.30	0.10	
591-78-6	2-Hexanone	**0.62**	1.1	0.36	**0.15**	0.28	0.089	**J**
124-48-1	Dibromochloromethane	**0.38**	0.23	0.19	**0.045**	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.19	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**1.6**	1.1	0.36	**0.33**	0.24	0.077	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02149

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.45 Final Pressure (psig): 4.13

Canister Dilution Factor: 2.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.41	ND	0.24	0.088	
127-18-4	Tetrachloroethene	**0.83**	0.23	0.16	**0.12**	0.034	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.041	
100-41-4	Ethylbenzene	**0.68**	1.1	0.36	**0.16**	0.26	0.084	**J**
179601-23-1	m,p-Xylenes	**1.9**	1.1	0.66	**0.44**	0.26	0.15	
75-25-2	Bromoform	**0.70**	1.1	0.34	**0.068**	0.11	0.033	**J**
100-42-5	Styrene	**1.1**	1.1	0.34	**0.25**	0.27	0.080	**J**
95-47-6	o-Xylene	**0.84**	1.1	0.34	**0.19**	0.26	0.079	**J**
111-84-2	n-Nonane	**0.47**	1.1	0.34	**0.090**	0.22	0.065	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.033	0.028	
98-82-8	Cumene	ND	1.1	0.34	ND	0.23	0.070	
80-56-8	alpha-Pinene	**7.5**	1.1	0.32	**1.4**	0.20	0.057	
103-65-1	n-Propylbenzene	ND	1.1	0.36	ND	0.23	0.074	
622-96-8	4-Ethyltoluene	ND	1.1	0.36	ND	0.23	0.074	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.36	ND	0.23	0.074	
95-63-6	1,2,4-Trimethylbenzene	**0.51**	1.1	0.34	**0.10**	0.23	0.070	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.048	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	**0.55**	0.23	0.17	**0.092**	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.035	
5989-27-5	d-Limonene	**6.2**	1.1	0.32	**1.1**	0.20	0.057	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.23	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.36	ND	0.15	0.049	
91-20-3	Naphthalene	ND	1.1	0.41	ND	0.22	0.078	
87-68-3	Hexachlorobutadiene	ND	1.1	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00743

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -8.67 Final Pressure (psig): 4.20

Canister Dilution Factor: 3.13

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**59**	1.6	0.44	**34**	0.91	0.25	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.6	0.53	**0.38**	0.32	0.11	
74-87-3	Chloromethane	**0.81**	0.63	0.44	**0.39**	0.30	0.21	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.59	ND	0.22	0.085	
75-01-4	Vinyl Chloride	ND	0.31	0.30	ND	0.12	0.12	
106-99-0	1,3-Butadiene	ND	0.63	0.44	ND	0.28	0.20	
74-83-9	Bromomethane	ND	0.63	0.29	ND	0.16	0.075	
75-00-3	Chloroethane	ND	0.63	0.27	ND	0.24	0.10	
64-17-5	Ethanol	**390**	16	2.5	**210**	8.3	1.3	
75-05-8	Acetonitrile	ND	1.6	0.56	ND	0.93	0.34	
107-02-8	Acrolein	**2.7**	6.3	0.53	**1.2**	2.7	0.23	**J**
67-64-1	Acetone	**55**	16	2.4	**23**	6.6	1.0	
75-69-4	Trichlorofluoromethane	**1.1**	0.31	0.18	**0.19**	0.056	0.032	
67-63-0	2-Propanol (Isopropyl Alcohol)	**130**	16	1.3	**55**	6.4	0.54	
107-13-1	Acrylonitrile	ND	1.6	0.53	ND	0.72	0.25	
75-35-4	1,1-Dichloroethene	ND	0.31	0.29	ND	0.079	0.073	
75-09-2	Methylene Chloride	**62**	1.6	0.53	**18**	0.45	0.15	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.31	0.24	ND	0.10	0.076	
76-13-1	Trichlorotrifluoroethane	**0.43**	0.31	0.25	**0.056**	0.041	0.033	
75-15-0	Carbon Disulfide	ND	16	0.47	ND	5.0	0.15	
156-60-5	trans-1,2-Dichloroethene	ND	0.31	0.28	ND	0.079	0.072	
75-34-3	1,1-Dichloroethane	ND	0.31	0.25	ND	0.077	0.061	
1634-04-4	Methyl tert-Butyl Ether	ND	0.31	0.29	ND	0.087	0.081	
108-05-4	Vinyl Acetate	ND	16	2.0	ND	4.4	0.58	
78-93-3	2-Butanone (MEK)	**9.2**	16	0.66	**3.1**	5.3	0.22	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00743

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -8.67 Final Pressure (psig): 4.20

Canister Dilution Factor: 3.13

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.31	0.29	ND	0.079	0.073	
141-78-6	Ethyl Acetate	**19**	3.1	1.1	**5.2**	0.87	0.30	
110-54-3	n-Hexane	**2.9**	1.6	0.47	**0.81**	0.44	0.13	
67-66-3	Chloroform	**0.37**	0.31	0.28	**0.076**	0.064	0.057	
109-99-9	Tetrahydrofuran (THF)	ND	1.6	0.63	ND	0.53	0.21	
107-06-2	1,2-Dichloroethane	**0.60**	0.31	0.19	**0.15**	0.077	0.048	
71-55-6	1,1,1-Trichloroethane	ND	0.31	0.23	ND	0.057	0.042	
71-43-2	Benzene	**2.2**	0.31	0.25	**0.68**	0.098	0.077	
56-23-5	Carbon Tetrachloride	**0.36**	0.31	0.27	**0.057**	0.050	0.043	
110-82-7	Cyclohexane	**1.4**	3.1	0.91	**0.41**	0.91	0.26	**J**
78-87-5	1,2-Dichloropropane	ND	0.31	0.26	ND	0.068	0.056	
75-27-4	Bromodichloromethane	ND	0.31	0.21	ND	0.047	0.032	
79-01-6	Trichloroethene	ND	0.31	0.28	ND	0.058	0.052	
123-91-1	1,4-Dioxane	ND	1.6	0.50	ND	0.43	0.14	
80-62-6	Methyl Methacrylate	ND	3.1	0.97	ND	0.76	0.24	
142-82-5	n-Heptane	**1.7**	1.6	0.53	**0.41**	0.38	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.44	ND	0.34	0.097	
108-10-1	4-Methyl-2-pentanone	**2.9**	1.6	0.50	**0.72**	0.38	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.50	ND	0.34	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.31	0.25	ND	0.057	0.046	
108-88-3	Toluene	**20**	1.6	0.53	**5.2**	0.42	0.14	
591-78-6	2-Hexanone	ND	1.6	0.50	ND	0.38	0.12	
124-48-1	Dibromochloromethane	ND	0.31	0.27	ND	0.037	0.031	
106-93-4	1,2-Dibromoethane	ND	0.31	0.27	ND	0.041	0.035	
123-86-4	n-Butyl Acetate	**2.0**	1.6	0.50	**0.43**	0.33	0.11	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P1601830-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00743

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -8.67 Final Pressure (psig): 4.20

Canister Dilution Factor: 3.13

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.81**	1.6	0.56	**0.17**	0.34	0.12	**J**
127-18-4	Tetrachloroethene	**0.30**	0.31	0.23	**0.044**	0.046	0.033	**J**
108-90-7	Chlorobenzene	ND	0.31	0.26	ND	0.068	0.056	
100-41-4	Ethylbenzene	**1.7**	1.6	0.50	**0.40**	0.36	0.12	
179601-23-1	m,p-Xylenes	**5.4**	1.6	0.91	**1.2**	0.36	0.21	
75-25-2	Bromoform	ND	1.6	0.47	ND	0.15	0.045	
100-42-5	Styrene	**0.84**	1.6	0.47	**0.20**	0.37	0.11	**J**
95-47-6	o-Xylene	**1.8**	1.6	0.47	**0.41**	0.36	0.11	
111-84-2	n-Nonane	**0.79**	1.6	0.47	**0.15**	0.30	0.090	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.31	0.26	ND	0.046	0.038	
98-82-8	Cumene	ND	1.6	0.47	ND	0.32	0.096	
80-56-8	alpha-Pinene	**1.2**	1.6	0.44	**0.22**	0.28	0.079	**J**
103-65-1	n-Propylbenzene	ND	1.6	0.50	ND	0.32	0.10	
622-96-8	4-Ethyltoluene	ND	1.6	0.50	ND	0.32	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	1.6	0.50	ND	0.32	0.10	
95-63-6	1,2,4-Trimethylbenzene	**1.5**	1.6	0.47	**0.31**	0.32	0.096	**J**
100-44-7	Benzyl Chloride	ND	1.6	0.34	ND	0.30	0.067	
541-73-1	1,3-Dichlorobenzene	ND	0.31	0.23	ND	0.052	0.039	
106-46-7	1,4-Dichlorobenzene	ND	0.31	0.24	ND	0.052	0.040	
95-50-1	1,2-Dichlorobenzene	ND	0.31	0.29	ND	0.052	0.048	
5989-27-5	d-Limonene	**7.9**	1.6	0.44	**1.4**	0.28	0.079	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.31	ND	0.16	0.032	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.50	ND	0.21	0.067	
91-20-3	Naphthalene	ND	1.6	0.56	ND	0.30	0.11	
87-68-3	Hexachlorobutadiene	ND	1.6	0.44	ND	0.15	0.041	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P1601830-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/7/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/9/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00743		

Initial Pressure (psig): -8.67 Final Pressure (psig): 4.20

Canister Dilution Factor: 3.13

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.61	Isobutane	**40**	
5.14	n-Butane	**39**	
20.62	unknown hydrocarbon	**62**	
20.85	unknown hydrocarbon	**110**	
21.09	unknown hydrocarbon	**85**	
21.12	unknown hydrocarbon	**72**	
21.31	unknown hydrocarbon	**55**	
21.99	Unidentified Siloxane	**46**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P160409-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830

ALS Sample ID: P160409-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601830

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 4/5/16
Analyst: Evelyn Alvarez Date(s) Received: 4/7/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/9/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
[redacted]	P160409-MB	**98**	**100**	**98**	70-130	
	P160409-LCS	**98**	**97**	**101**	70-130	
	P1601830-001	**96**	**99**	**100**	70-130	
	P1601830-002	**97**	**98**	**99**	70-130	
	P1601830-003	**98**	**99**	**99**	70-130	
	P1601830-004	**98**	**99**	**100**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**199**	**100**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**157**	**77**	65-122	
75-01-4	Vinyl Chloride	200	**181**	**91**	65-128	
106-99-0	1,3-Butadiene	206	**204**	**99**	62-143	
74-83-9	Bromomethane	202	**177**	**88**	65-130	
75-00-3	Chloroethane	200	**180**	**90**	69-126	
64-17-5	Ethanol	998	**956**	**96**	57-126	
75-05-8	Acetonitrile	212	**200**	**94**	51-134	
107-02-8	Acrolein	214	**206**	**96**	55-146	
67-64-1	Acetone	1,080	**1090**	**101**	57-120	
75-69-4	Trichlorofluoromethane	216	**155**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**421**	**101**	59-129	
107-13-1	Acrylonitrile	212	**225**	**106**	64-136	
75-35-4	1,1-Dichloroethene	216	**197**	**91**	72-123	
75-09-2	Methylene Chloride	222	**182**	**82**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**220**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**186**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**155**	**74**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**212**	**101**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**182**	**84**	55-128	
108-05-4	Vinyl Acetate	1,040	**1070**	**103**	66-140	
78-93-3	2-Butanone (MEK)	220	**230**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**473**	**111**	64-132	
110-54-3	n-Hexane	212	**204**	**96**	58-126	
67-66-3	Chloroform	224	**193**	**86**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**198**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**181**	**85**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**169**	**80**	68-120	
71-43-2	Benzene	226	**193**	**85**	61-110	
56-23-5	Carbon Tetrachloride	230	**177**	**77**	65-137	
110-82-7	Cyclohexane	424	**386**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**192**	**88**	71-124	
79-01-6	Trichloroethene	216	**173**	**80**	71-121	
123-91-1	1,4-Dioxane	210	**214**	**102**	67-122	
80-62-6	Methyl Methacrylate	422	**436**	**103**	76-130	
142-82-5	n-Heptane	216	**203**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**243**	**110**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**209**	**100**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**196**	**91**	73-121	
108-88-3	Toluene	218	**182**	**83**	67-117	
591-78-6	2-Hexanone	220	**230**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**192**	**87**	73-132	
106-93-4	1,2-Dibromoethane	218	**198**	**91**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601830
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**198**	**94**	67-124	
127-18-4	Tetrachloroethene	202	**174**	**86**	65-126	
108-90-7	Chlorobenzene	220	**184**	**84**	68-120	
100-41-4	Ethylbenzene	218	**189**	**87**	69-123	
179601-23-1	m,p-Xylenes	428	**378**	**88**	67-125	
75-25-2	Bromoform	228	**192**	**84**	68-153	
100-42-5	Styrene	222	**201**	**91**	68-132	
95-47-6	o-Xylene	210	**184**	**88**	67-124	
111-84-2	n-Nonane	204	**203**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**199**	**95**	72-128	
98-82-8	Cumene	208	**178**	**86**	67-124	
80-56-8	alpha-Pinene	212	**190**	**90**	67-129	
103-65-1	n-Propylbenzene	204	**183**	**90**	67-125	
622-96-8	4-Ethyltoluene	214	**197**	**92**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**183**	**86**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**194**	**89**	62-134	
100-44-7	Benzyl Chloride	220	**196**	**89**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**195**	**86**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**184**	**88**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**189**	**86**	62-134	
5989-27-5	d-Limonene	210	**209**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**177**	**81**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**175**	**76**	60-145	
91-20-3	Naphthalene	218	**162**	**74**	56-158	
87-68-3	Hexachlorobutadiene	230	**174**	**76**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 14, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

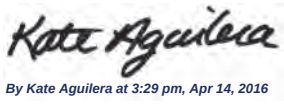
Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601831.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental



Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601831
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

One of the four containers was batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601831
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 10:16

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601831-001	Air	4/5/2016	16:00	AS00769	-6.66	3.78	X
P1601831-002	Air	4/5/2016	16:00	AS00914	-7.16	3.90	X
P1601831-003	Air	4/5/2016	16:20	AS00263	-6.71	3.64	X
P1601831-004	Air	4/5/2016	15:10	CC00201	-5.56	3.54	X

P1601831

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-5-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill & Robin Fomalont; IZ
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre (Start)	Flow Rate (L/min) Post (end)	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
72-SU	"	"	2.30	-17	1617	1600	1423		dining room table (at -4 at opening) Can #: [redacted] SN: 17139 GAGE: A0248024-9
			Avg:			1600			
72-SU-D	"	"	2.29	-13	1617	[illegible]	1433		dining room table (at zero at opening) Can SN: 20412 GAGE: A0248023-6
			Avg:						
27-SU	11	11	2.30	-14.5	1708	1620	1392		dining table SN can 13273 gauge A0248028-5 -5 before opening
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Ingrid Zubieta	Date: 4/6/16	Time: 1646	Received by:	Date: 4/6/16	Time: 1654
Relinquished by:	Date: 4/7/16	Time: 950	Received by:	Date: 4/7/16	Time: 948
Relinquished by:	Date: 4/7/16	Time: 1016	Received by:	Date: 4/7/16	Time: 1011

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/5/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
12Z-SU	Summa	TO-15	-19	-9	1540	1510	1410		AirTech Can ID# 1460/ETR 7602 (fitting) Corner Table in Living Room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/6/16	Time: 1700	Received by:	Date: 4/6/16	Time: 1700
Relinquished by:	Date: 4/7/16	Time: 950	Received by:	Date: 4/7/16	Time: 948
Relinquished by:	Date: 4/7/16	Time: 1016	Received by:	Date: 4/7/16	Time: 1016

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601831

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601831-001.01	6.0 L Silonite Can					
P1601831-002.01	6.0 L Silonite Can					
P1601831-003.01	6.0 L Silonite Can					
P1601831-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00769

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.66 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.8**	1.2	0.32	**1.0**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.2	0.39	**0.44**	0.23	0.079	
74-87-3	Chloromethane	**0.55**	0.46	0.32	**0.27**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.44	ND	0.16	0.063	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.090	0.086	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.15	
74-83-9	Bromomethane	ND	0.46	0.21	ND	0.12	0.055	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.17	0.076	
64-17-5	Ethanol	**140**	12	1.8	**72**	6.1	0.98	
75-05-8	Acetonitrile	ND	1.2	0.41	ND	0.69	0.25	
107-02-8	Acrolein	**0.65**	4.6	0.39	**0.28**	2.0	0.17	**J**
67-64-1	Acetone	**15**	12	1.8	**6.5**	4.8	0.75	
75-69-4	Trichlorofluoromethane	**1.1**	0.23	0.13	**0.20**	0.041	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.2**	12	0.97	**0.89**	4.7	0.39	**J**
107-13-1	Acrylonitrile	ND	1.2	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
75-09-2	Methylene Chloride	**120**	1.2	0.39	**34**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.074	0.056	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.23	0.18	**0.069**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	12	0.35	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.064	0.059	
108-05-4	Vinyl Acetate	ND	12	1.5	ND	3.3	0.42	
78-93-3	2-Butanone (MEK)	**0.97**	12	0.48	**0.33**	3.9	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831

ALS Sample ID: P1601831-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00769

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.66 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
141-78-6	Ethyl Acetate	**17**	2.3	0.81	**4.6**	0.64	0.22	
110-54-3	n-Hexane	ND	1.2	0.35	ND	0.33	0.098	
67-66-3	Chloroform	ND	0.23	0.20	ND	0.047	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.46	ND	0.39	0.16	
107-06-2	1,2-Dichloroethane	**1.6**	0.23	0.14	**0.39**	0.057	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**0.80**	0.23	0.18	**0.25**	0.072	0.057	
56-23-5	Carbon Tetrachloride	**0.52**	0.23	0.20	**0.083**	0.037	0.031	
110-82-7	Cyclohexane	ND	2.3	0.67	ND	0.67	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.041	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.034	0.023	
79-01-6	Trichloroethene	ND	0.23	0.20	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.2	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.71	ND	0.56	0.17	
142-82-5	n-Heptane	ND	1.2	0.39	ND	0.28	0.095	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.32	ND	0.25	0.071	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.37	ND	0.28	0.090	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.37	ND	0.25	0.081	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.034	
108-88-3	Toluene	**0.76**	1.2	0.39	**0.20**	0.31	0.10	**J**
591-78-6	2-Hexanone	ND	1.2	0.37	ND	0.28	0.090	
124-48-1	Dibromochloromethane	ND	0.23	0.20	ND	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.20	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**2.1**	1.2	0.37	**0.44**	0.24	0.077	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00769

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.66 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.41	ND	0.25	0.089	
127-18-4	Tetrachloroethene	ND	0.23	0.17	ND	0.034	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.041	
100-41-4	Ethylbenzene	ND	1.2	0.37	ND	0.26	0.085	
179601-23-1	m,p-Xylenes	ND	1.2	0.67	ND	0.26	0.15	
75-25-2	Bromoform	ND	1.2	0.35	ND	0.11	0.033	
100-42-5	Styrene	ND	1.2	0.35	ND	0.27	0.081	
95-47-6	o-Xylene	ND	1.2	0.35	ND	0.26	0.079	
111-84-2	n-Nonane	ND	1.2	0.35	ND	0.22	0.066	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.034	0.028	
98-82-8	Cumene	ND	1.2	0.35	ND	0.23	0.070	
80-56-8	alpha-Pinene	**2.0**	1.2	0.32	**0.36**	0.21	0.058	
103-65-1	n-Propylbenzene	ND	1.2	0.37	ND	0.23	0.075	
622-96-8	4-Ethyltoluene	ND	1.2	0.37	ND	0.23	0.075	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.37	ND	0.23	0.075	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.35	ND	0.23	0.070	
100-44-7	Benzyl Chloride	ND	1.2	0.25	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.036	
5989-27-5	d-Limonene	**0.61**	1.2	0.32	**0.11**	0.21	0.058	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.23	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.37	ND	0.15	0.050	
91-20-3	Naphthalene	ND	1.2	0.41	ND	0.22	0.079	
87-68-3	Hexachlorobutadiene	ND	1.2	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00914

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.16 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.7**	1.2	0.35	**1.0**	0.72	0.20	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.2	0.42	**0.44**	0.25	0.085	
74-87-3	Chloromethane	**0.54**	0.49	0.35	**0.26**	0.24	0.17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.47	ND	0.18	0.067	
75-01-4	Vinyl Chloride	ND	0.25	0.23	ND	0.097	0.092	
106-99-0	1,3-Butadiene	ND	0.49	0.35	ND	0.22	0.16	
74-83-9	Bromomethane	ND	0.49	0.23	ND	0.13	0.059	
75-00-3	Chloroethane	ND	0.49	0.21	ND	0.19	0.081	
64-17-5	Ethanol	**130**	12	2.0	**71**	6.6	1.0	
75-05-8	Acetonitrile	ND	1.2	0.44	ND	0.74	0.26	
107-02-8	Acrolein	**0.67**	4.9	0.42	**0.29**	2.2	0.18	**J**
67-64-1	Acetone	**16**	12	1.9	**6.7**	5.2	0.80	
75-69-4	Trichlorofluoromethane	**1.2**	0.25	0.14	**0.21**	0.044	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.1**	12	1.0	**0.85**	5.0	0.42	**J**
107-13-1	Acrylonitrile	ND	1.2	0.42	ND	0.57	0.19	
75-35-4	1,1-Dichloroethene	ND	0.25	0.23	ND	0.062	0.058	
75-09-2	Methylene Chloride	**120**	1.2	0.42	**34**	0.36	0.12	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.25	0.19	ND	0.079	0.060	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.25	0.20	**0.068**	0.032	0.026	
75-15-0	Carbon Disulfide	ND	12	0.37	ND	4.0	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	0.25	0.22	ND	0.062	0.057	
75-34-3	1,1-Dichloroethane	ND	0.25	0.20	ND	0.061	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.25	0.23	ND	0.069	0.064	
108-05-4	Vinyl Acetate	ND	12	1.6	ND	3.5	0.46	
78-93-3	2-Butanone (MEK)	**1.0**	12	0.52	**0.35**	4.2	0.18	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00914

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.16 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.25	0.23	ND	0.062	0.057	
141-78-6	Ethyl Acetate	**19**	2.5	0.86	**5.3**	0.69	0.24	
110-54-3	n-Hexane	**0.62**	1.2	0.37	**0.18**	0.35	0.11	**J**
67-66-3	Chloroform	ND	0.25	0.22	ND	0.051	0.045	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.49	ND	0.42	0.17	
107-06-2	1,2-Dichloroethane	**1.5**	0.25	0.15	**0.36**	0.061	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.25	0.18	ND	0.045	0.034	
71-43-2	Benzene	**0.51**	0.25	0.20	**0.16**	0.077	0.061	
56-23-5	Carbon Tetrachloride	**0.51**	0.25	0.21	**0.081**	0.039	0.034	
110-82-7	Cyclohexane	ND	2.5	0.72	ND	0.72	0.21	
78-87-5	1,2-Dichloropropane	ND	0.25	0.21	ND	0.053	0.044	
75-27-4	Bromodichloromethane	ND	0.25	0.17	ND	0.037	0.025	
79-01-6	Trichloroethene	ND	0.25	0.22	ND	0.046	0.041	
123-91-1	1,4-Dioxane	ND	1.2	0.40	ND	0.34	0.11	
80-62-6	Methyl Methacrylate	ND	2.5	0.77	ND	0.60	0.19	
142-82-5	n-Heptane	ND	1.2	0.42	ND	0.30	0.10	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.35	ND	0.27	0.076	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.40	ND	0.30	0.096	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.40	ND	0.27	0.087	
79-00-5	1,1,2-Trichloroethane	ND	0.25	0.20	ND	0.045	0.036	
108-88-3	Toluene	**0.79**	1.2	0.42	**0.21**	0.33	0.11	**J**
591-78-6	2-Hexanone	ND	1.2	0.40	ND	0.30	0.097	
124-48-1	Dibromochloromethane	ND	0.25	0.21	ND	0.029	0.025	
106-93-4	1,2-Dibromoethane	ND	0.25	0.21	ND	0.032	0.027	
123-86-4	n-Butyl Acetate	**2.0**	1.2	0.40	**0.43**	0.26	0.083	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00914

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.16 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.44	ND	0.26	0.095	
127-18-4	Tetrachloroethene	ND	0.25	0.18	ND	0.036	0.026	
108-90-7	Chlorobenzene	ND	0.25	0.21	ND	0.054	0.045	
100-41-4	Ethylbenzene	ND	1.2	0.40	ND	0.28	0.091	
179601-23-1	m,p-Xylenes	ND	1.2	0.72	ND	0.28	0.16	
75-25-2	Bromoform	ND	1.2	0.37	ND	0.12	0.036	
100-42-5	Styrene	ND	1.2	0.37	ND	0.29	0.087	
95-47-6	o-Xylene	ND	1.2	0.37	ND	0.28	0.085	
111-84-2	n-Nonane	ND	1.2	0.37	ND	0.24	0.071	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.25	0.21	ND	0.036	0.030	
98-82-8	Cumene	ND	1.2	0.37	ND	0.25	0.075	
80-56-8	alpha-Pinene	**1.9**	1.2	0.35	**0.34**	0.22	0.062	
103-65-1	n-Propylbenzene	ND	1.2	0.40	ND	0.25	0.080	
622-96-8	4-Ethyltoluene	ND	1.2	0.40	ND	0.25	0.080	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.40	ND	0.25	0.080	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.37	ND	0.25	0.075	
100-44-7	Benzyl Chloride	ND	1.2	0.27	ND	0.24	0.052	
541-73-1	1,3-Dichlorobenzene	ND	0.25	0.18	ND	0.041	0.030	
106-46-7	1,4-Dichlorobenzene	ND	0.25	0.19	ND	0.041	0.031	
95-50-1	1,2-Dichlorobenzene	ND	0.25	0.23	ND	0.041	0.038	
5989-27-5	d-Limonene	**0.50**	1.2	0.35	**0.089**	0.22	0.062	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.24	ND	0.13	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.40	ND	0.17	0.053	
91-20-3	Naphthalene	ND	1.2	0.44	ND	0.24	0.085	
87-68-3	Hexachlorobutadiene	ND	1.2	0.35	ND	0.12	0.032	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00263

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -6.71 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	1.2	0.32	**1.5**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.2	0.39	**0.43**	0.23	0.079	
74-87-3	Chloromethane	**0.71**	0.46	0.32	**0.34**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.44	ND	0.16	0.063	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.090	0.086	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.15	
74-83-9	Bromomethane	ND	0.46	0.21	ND	0.12	0.055	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.17	0.076	
64-17-5	Ethanol	**1,300**	58	9.2	**680**	31	4.9	**D**
75-05-8	Acetonitrile	ND	1.2	0.41	ND	0.69	0.25	
107-02-8	Acrolein	**1.9**	4.6	0.39	**0.82**	2.0	0.17	**J**
67-64-1	Acetone	**39**	12	1.8	**16**	4.8	0.75	
75-69-4	Trichlorofluoromethane	**1.1**	0.23	0.13	**0.20**	0.041	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.7**	12	0.97	**2.7**	4.7	0.39	**J**
107-13-1	Acrylonitrile	ND	1.2	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.058	0.054	
75-09-2	Methylene Chloride	**47**	1.2	0.39	**14**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.074	0.056	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.23	0.18	**0.066**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	12	0.35	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.064	0.059	
108-05-4	Vinyl Acetate	**2.3**	12	1.5	**0.66**	3.3	0.42	**J**
78-93-3	2-Butanone (MEK)	**2.1**	12	0.48	**0.72**	3.9	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00263

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -6.71 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.058	0.053	
141-78-6	Ethyl Acetate	**18**	2.3	0.81	**5.1**	0.64	0.22	
110-54-3	n-Hexane	**0.44**	1.2	0.35	**0.13**	0.33	0.098	**J**
67-66-3	Chloroform	**0.26**	0.23	0.20	**0.053**	0.047	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.46	ND	0.39	0.16	
107-06-2	1,2-Dichloroethane	**0.58**	0.23	0.14	**0.14**	0.057	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**0.41**	0.23	0.18	**0.13**	0.072	0.057	
56-23-5	Carbon Tetrachloride	**0.52**	0.23	0.20	**0.082**	0.037	0.031	
110-82-7	Cyclohexane	ND	2.3	0.67	ND	0.67	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.041	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.034	0.023	
79-01-6	Trichloroethene	ND	0.23	0.20	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.2	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.71	ND	0.56	0.17	
142-82-5	n-Heptane	**0.76**	1.2	0.39	**0.19**	0.28	0.095	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.32	ND	0.25	0.071	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.37	ND	0.28	0.090	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.37	ND	0.25	0.081	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.034	
108-88-3	Toluene	**2.0**	1.2	0.39	**0.54**	0.31	0.10	
591-78-6	2-Hexanone	ND	1.2	0.37	ND	0.28	0.090	
124-48-1	Dibromochloromethane	**0.28**	0.23	0.20	**0.033**	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.20	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**1.6**	1.2	0.37	**0.33**	0.24	0.077	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00263

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -6.71 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.41	ND	0.25	0.089	
127-18-4	Tetrachloroethene	ND	0.23	0.17	ND	0.034	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.041	
100-41-4	Ethylbenzene	**0.40**	1.2	0.37	**0.092**	0.26	0.085	**J**
179601-23-1	m,p-Xylenes	**1.0**	1.2	0.67	**0.23**	0.26	0.15	**J**
75-25-2	Bromoform	ND	1.2	0.35	ND	0.11	0.033	
100-42-5	Styrene	**0.81**	1.2	0.35	**0.19**	0.27	0.081	**J**
95-47-6	o-Xylene	**0.73**	1.2	0.35	**0.17**	0.26	0.079	**J**
111-84-2	n-Nonane	**0.53**	1.2	0.35	**0.10**	0.22	0.066	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.034	0.028	
98-82-8	Cumene	ND	1.2	0.35	ND	0.23	0.070	
80-56-8	alpha-Pinene	**4.8**	1.2	0.32	**0.85**	0.21	0.058	
103-65-1	n-Propylbenzene	**1.3**	1.2	0.37	**0.27**	0.23	0.075	
622-96-8	4-Ethyltoluene	**1.8**	1.2	0.37	**0.37**	0.23	0.075	
108-67-8	1,3,5-Trimethylbenzene	**1.6**	1.2	0.37	**0.32**	0.23	0.075	
95-63-6	1,2,4-Trimethylbenzene	**4.9**	1.2	0.35	**0.99**	0.23	0.070	
100-44-7	Benzyl Chloride	ND	1.2	0.25	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.036	
5989-27-5	d-Limonene	**22**	1.2	0.32	**3.9**	0.21	0.058	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.23	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.37	ND	0.15	0.050	
91-20-3	Naphthalene	ND	1.2	0.41	ND	0.22	0.079	
87-68-3	Hexachlorobutadiene	ND	1.2	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831

ALS Sample ID: P1601831-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/7/16
Analyst:	Wida Ang	Date Analyzed:	4/10/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.20 Liter(s)
Container ID:	AS00263		

Initial Pressure (psig): -6.71 Final Pressure (psig): 3.64

Canister Dilution Factor: 2.30

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.91	Propane	**56**	
4.16	Dimethyl Ether	**150**	
4.36	Isobutane	**92**	
4.51	Methyl Alcohol	**26**	
4.72	n-Butane	**75**	
17.47	2,2,4,6,6-Pentamethylheptane	**22**	
19.12	unknown	**46**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00201

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.54

Canister Dilution Factor: 2.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**16**	1.0	0.28	**9.3**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.0	0.34	**0.44**	0.20	0.069	
74-87-3	Chloromethane	**0.59**	0.40	0.28	**0.28**	0.19	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.054	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.078	0.074	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.066	
64-17-5	Ethanol	**300**	10	1.6	**160**	5.3	0.85	
75-05-8	Acetonitrile	ND	1.0	0.36	ND	0.60	0.21	
107-02-8	Acrolein	**3.0**	4.0	0.34	**1.3**	1.7	0.15	**J**
67-64-1	Acetone	**26**	10	1.5	**11**	4.2	0.65	
75-69-4	Trichlorofluoromethane	**1.1**	0.20	0.11	**0.20**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**29**	10	0.84	**12**	4.1	0.34	
107-13-1	Acrylonitrile	ND	1.0	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	**0.24**	0.20	0.19	**0.060**	0.050	0.047	
75-09-2	Methylene Chloride	**22**	1.0	0.34	**6.3**	0.29	0.098	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.064	0.049	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.20	0.16	**0.066**	0.026	0.021	
75-15-0	Carbon Disulfide	**0.82**	10	0.30	**0.26**	3.2	0.096	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.050	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.049	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.055	0.052	
108-05-4	Vinyl Acetate	**3.7**	10	1.3	**1.1**	2.8	0.37	**J**
78-93-3	2-Butanone (MEK)	**3.0**	10	0.42	**1.0**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00201

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.54

Canister Dilution Factor: 2.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.050	0.046	
141-78-6	Ethyl Acetate	**14**	2.0	0.70	**3.9**	0.56	0.19	
110-54-3	n-Hexane	**1.9**	1.0	0.30	**0.53**	0.28	0.085	
67-66-3	Chloroform	**1.2**	0.20	0.18	**0.24**	0.041	0.036	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	**0.84**	0.20	0.12	**0.21**	0.049	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.037	0.027	
71-43-2	Benzene	**1.4**	0.20	0.16	**0.44**	0.063	0.049	
56-23-5	Carbon Tetrachloride	**0.59**	0.20	0.17	**0.094**	0.032	0.027	
110-82-7	Cyclohexane	ND	2.0	0.58	ND	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.043	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.020	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.037	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.089	
80-62-6	Methyl Methacrylate	ND	2.0	0.62	ND	0.49	0.15	
142-82-5	n-Heptane	**1.5**	1.0	0.34	**0.36**	0.24	0.083	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	**0.93**	1.0	0.32	**0.23**	0.24	0.078	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.029	
108-88-3	Toluene	**10**	1.0	0.34	**2.7**	0.27	0.090	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.24	0.078	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.023	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**0.97**	1.0	0.32	**0.21**	0.21	0.067	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P1601831-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00201

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.54

Canister Dilution Factor: 2.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.59**	1.0	0.36	**0.13**	0.21	0.077	**J**
127-18-4	Tetrachloroethene	**0.63**	0.20	0.14	**0.093**	0.030	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.043	0.036	
100-41-4	Ethylbenzene	**0.95**	1.0	0.32	**0.22**	0.23	0.074	**J**
179601-23-1	m,p-Xylenes	**2.8**	1.0	0.58	**0.64**	0.23	0.13	
75-25-2	Bromoform	ND	1.0	0.30	ND	0.097	0.029	
100-42-5	Styrene	ND	1.0	0.30	ND	0.23	0.070	
95-47-6	o-Xylene	**0.99**	1.0	0.30	**0.23**	0.23	0.069	**J**
111-84-2	n-Nonane	ND	1.0	0.30	ND	0.19	0.057	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.024	
98-82-8	Cumene	**3.3**	1.0	0.30	**0.66**	0.20	0.061	
80-56-8	alpha-Pinene	**2.3**	1.0	0.28	**0.41**	0.18	0.050	
103-65-1	n-Propylbenzene	ND	1.0	0.32	ND	0.20	0.065	
622-96-8	4-Ethyltoluene	ND	1.0	0.32	ND	0.20	0.065	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.32	ND	0.20	0.065	
95-63-6	1,2,4-Trimethylbenzene	**0.84**	1.0	0.30	**0.17**	0.20	0.061	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.19	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
106-46-7	1,4-Dichlorobenzene	**11**	0.20	0.15	**1.8**	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.033	0.031	
5989-27-5	d-Limonene	**17**	1.0	0.28	**3.0**	0.18	0.050	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.13	0.043	
91-20-3	Naphthalene	**0.49**	1.0	0.36	**0.093**	0.19	0.069	**J**
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.094	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831

ALS Sample ID: P1601831-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/7/16
Analyst:	Wida Ang	Date Analyzed:	4/10/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00201		

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.54

Canister Dilution Factor: 2.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.35	Isobutane	**22**	
4.50	Methyl Alcohol	**18**	
4.70	n-Butane	**17**	
18.30	alpha-Cumyl Alcohol	**57**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P160409-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831

ALS Sample ID: P160409-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601831

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/5/16
Analyst: Wida Ang Date(s) Received: 4/7/16
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 4/9 - 4/10/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
[redacted]	P160409-MB	**105**	**97**	**102**	70-130	
	P160409-LCS	**101**	**94**	**105**	70-130	
	P1601831-001	**102**	**96**	**102**	70-130	
	P1601831-002	**103**	**98**	**103**	70-130	
	P1601831-003	**103**	**95**	**102**	70-130	
	P1601831-004	**103**	**97**	**103**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**176**	**90**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**171**	**91**	65-117	
74-87-3	Chloromethane	200	**211**	**106**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**181**	**89**	65-122	
75-01-4	Vinyl Chloride	200	**209**	**105**	65-128	
106-99-0	1,3-Butadiene	206	**217**	**105**	62-143	
74-83-9	Bromomethane	202	**199**	**99**	65-130	
75-00-3	Chloroethane	200	**191**	**96**	69-126	
64-17-5	Ethanol	998	**912**	**91**	57-126	
75-05-8	Acetonitrile	212	**190**	**90**	51-134	
107-02-8	Acrolein	214	**196**	**92**	55-146	
67-64-1	Acetone	1,080	**899**	**83**	57-120	
75-69-4	Trichlorofluoromethane	216	**172**	**80**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**394**	**94**	59-129	
107-13-1	Acrylonitrile	212	**214**	**101**	64-136	
75-35-4	1,1-Dichloroethene	216	**206**	**95**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**235**	**108**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**196**	**89**	68-118	
75-15-0	Carbon Disulfide	210	**157**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**211**	**100**	69-129	
75-34-3	1,1-Dichloroethane	212	**194**	**92**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**197**	**91**	55-128	
108-05-4	Vinyl Acetate	1,040	**1080**	**104**	66-140	
78-93-3	2-Butanone (MEK)	220	**168**	**76**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**212**	**97**	65-125	
141-78-6	Ethyl Acetate	428	**413**	**96**	64-132	
110-54-3	n-Hexane	212	**160**	**75**	58-126	
67-66-3	Chloroform	224	**198**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**210**	**95**	64-123	
107-06-2	1,2-Dichloroethane	214	**198**	**93**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**206**	**98**	68-120	
71-43-2	Benzene	226	**193**	**85**	61-110	
56-23-5	Carbon Tetrachloride	230	**218**	**95**	65-137	
110-82-7	Cyclohexane	424	**383**	**90**	68-122	
78-87-5	1,2-Dichloropropane	216	**203**	**94**	67-122	
75-27-4	Bromodichloromethane	218	**221**	**101**	71-124	
79-01-6	Trichloroethene	216	**191**	**88**	71-121	
123-91-1	1,4-Dioxane	210	**226**	**108**	67-122	
80-62-6	Methyl Methacrylate	422	**398**	**94**	76-130	
142-82-5	n-Heptane	216	**189**	**88**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**210**	**101**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**218**	**99**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**222**	**106**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**209**	**97**	73-121	
108-88-3	Toluene	218	**155**	**71**	67-117	
591-78-6	2-Hexanone	220	**208**	**95**	59-128	
124-48-1	Dibromochloromethane	220	**219**	**100**	73-132	
106-93-4	1,2-Dibromoethane	218	**206**	**94**	73-128	
123-86-4	n-Butyl Acetate	226	**227**	**100**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601831
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**183**	**87**	67-124	
127-18-4	Tetrachloroethene	202	**173**	**86**	65-126	
108-90-7	Chlorobenzene	220	**189**	**86**	68-120	
100-41-4	Ethylbenzene	218	**192**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**373**	**87**	67-125	
75-25-2	Bromoform	228	**219**	**96**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**185**	**88**	67-124	
111-84-2	n-Nonane	204	**187**	**92**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**195**	**93**	72-128	
98-82-8	Cumene	208	**182**	**88**	67-124	
80-56-8	alpha-Pinene	212	**191**	**90**	67-129	
103-65-1	n-Propylbenzene	204	**185**	**91**	67-125	
622-96-8	4-Ethyltoluene	214	**196**	**92**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**189**	**88**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**196**	**90**	62-134	
100-44-7	Benzyl Chloride	220	**242**	**110**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**201**	**88**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**189**	**91**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**198**	**90**	62-134	
5989-27-5	d-Limonene	210	**203**	**97**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**223**	**102**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**208**	**90**	60-145	
91-20-3	Naphthalene	218	**201**	**92**	56-158	
87-68-3	Hexachlorobutadiene	230	**193**	**84**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 14, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601832.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 3:30 pm, Apr 14, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601832
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601832
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 10:16

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601832-001	Air	4/5/2016	08:38	AC01584	-5.87	3.51	X
P1601832-002	Air	4/5/2016	09:09	AS01042	-6.64	3.98	X
P1601832-003	Air	4/5/2016	09:15	AS00773	-6.90	3.65	X
P1601832-004	Air	4/5/2016	10:31	AC01603	-6.24	3.80	X

P1601832

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 11.5.16
	Project Location: Aliso Canyon	LA Co. CIH – Jim Y.	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Hovaness Dekeyan, Wallace Somers (Samplers)	
	Rotameter: —	**Serial # :** —	**Expiration Date:** —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							~~Summa - AeroSphere SN - 90953~~ LOSS 4-5-16 ~~F.C. - McDaniel Controls FCR0122~~ ~~Central Foyer Area~~
				Avg:					
1-SU			-28	-11	0557	0838	1421		Summa - AeroSphere SN - 90953 F.C. McDaniel Controls FCR0122 - Central Foyer Area
				Avg:					
107-SU			-28	-12.5	0929	0909	1420		Summa - Restek SN # R0629 F.C. - McDaniel Controls FCR0117 - South - Dining Room Table
				Avg:					
107-SU-EXT			-28.5	-13	0954	0915	1401		Entech - 16984 Summa F.C. McDaniel Controls - FCR0119 South - Backyard
				Avg:					
~~73-SU~~ ~~73-F~~ LOSS 4-5-16			-29	-12	1053	1031	1418		Central East - Dining Room Table Next to Piano Restek SN 6432 F.C. McDaniel FCR0131
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by: Wallace Somers	**Date:** 11.6.16	**Time:** 1552	**Received by:**	**Date:** 4/6/16	**Time:** 1554
Relinquished by:	**Date:** 4/7/16	**Time:** 949	**Received by:**	**Date:** 4/7/16	**Time:** 948
Relinquished by:	**Date:** 4/7/16	**Time:** 1016	**Received by:**	**Date:** 4/7/16	**Time:** 1016

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601832

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601832-001.01	6.0 L Ambient Can					
P1601832-002.01	6.0 L Silonite Can					
P1601832-003.01	6.0 L Silonite Can					
P1601832-004.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01584

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.87 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.06

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**75**	1.0	0.29	**43**	0.60	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	0.35	**0.42**	0.21	0.071	
74-87-3	Chloromethane	**0.61**	0.41	0.29	**0.30**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.081	0.077	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**510**	10	1.6	**270**	5.5	0.87	
75-05-8	Acetonitrile	ND	1.0	0.37	ND	0.61	0.22	
107-02-8	Acrolein	**2.5**	4.1	0.35	**1.1**	1.8	0.15	**J**
67-64-1	Acetone	**45**	10	1.6	**19**	4.3	0.67	
75-69-4	Trichlorofluoromethane	**1.1**	0.21	0.12	**0.19**	0.037	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**150**	10	0.87	**63**	4.2	0.35	
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-09-2	Methylene Chloride	**38**	1.0	0.35	**11**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.21	0.16	**0.063**	0.027	0.022	
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.3	0.099	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.047	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**3.4**	10	1.3	**0.96**	2.9	0.38	**J**
78-93-3	2-Butanone (MEK)	**2.1**	10	0.43	**0.72**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832

ALS Sample ID: P1601832-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01584

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.87 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.06

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	**33**	2.1	0.72	**9.2**	0.57	0.20	
110-54-3	n-Hexane	**0.62**	1.0	0.31	**0.18**	0.29	0.088	**J**
67-66-3	Chloroform	**0.34**	0.21	0.18	**0.069**	0.042	0.038	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	**1.3**	0.21	0.13	**0.31**	0.051	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**1.1**	0.21	0.16	**0.33**	0.065	0.051	
56-23-5	Carbon Tetrachloride	**0.43**	0.21	0.18	**0.069**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.60	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.045	0.037	
75-27-4	Bromodichloromethane	**0.18**	0.21	0.14	**0.027**	0.031	0.021	**J**
79-01-6	Trichloroethene	ND	0.21	0.18	ND	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.29	0.091	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.50	0.16	
142-82-5	n-Heptane	**3.3**	1.0	0.35	**0.79**	0.25	0.085	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.064	
108-10-1	4-Methyl-2-pentanone	**0.36**	1.0	0.33	**0.088**	0.25	0.080	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.073	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.16	ND	0.038	0.030	
108-88-3	Toluene	**2.5**	1.0	0.35	**0.67**	0.27	0.093	
591-78-6	2-Hexanone	**0.34**	1.0	0.33	**0.084**	0.25	0.080	**J**
124-48-1	Dibromochloromethane	**0.30**	0.21	0.18	**0.036**	0.024	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**2.4**	1.0	0.33	**0.49**	0.22	0.069	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01584

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.87 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.06

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.37	ND	0.22	0.079	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	**0.40**	1.0	0.33	**0.093**	0.24	0.076	**J**
179601-23-1	m,p-Xylenes	**1.3**	1.0	0.60	**0.29**	0.24	0.14	
75-25-2	Bromoform	ND	1.0	0.31	ND	0.10	0.030	
100-42-5	Styrene	**0.35**	1.0	0.31	**0.083**	0.24	0.073	**J**
95-47-6	o-Xylene	**0.43**	1.0	0.31	**0.10**	0.24	0.071	**J**
111-84-2	n-Nonane	**0.35**	1.0	0.31	**0.068**	0.20	0.059	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
80-56-8	alpha-Pinene	**2.6**	1.0	0.29	**0.46**	0.18	0.052	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	**0.39**	1.0	0.31	**0.079**	0.21	0.063	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**29**	1.0	0.29	**5.2**	0.18	0.052	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.071	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.097	0.027	

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832

ALS Sample ID: P1601832-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/7/16
Analyst:	Wida Ang	Date Analyzed:	4/10/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AC01584		

Initial Pressure (psig): -5.87 Final Pressure (psig): 3.51

Canister Dilution Factor: 2.06

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.51	Methyl Alcohol	**15**	
14.19	Hexamethylcyclotrisiloxane	**47**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01042

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.64 Final Pressure (psig): 3.98

Canister Dilution Factor: 2.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.5**	1.2	0.32	**1.5**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	1.2	0.39	**0.46**	0.23	0.080	
74-87-3	Chloromethane	**0.57**	0.46	0.32	**0.28**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.44	ND	0.17	0.063	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.091	0.086	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.15	
74-83-9	Bromomethane	ND	0.46	0.22	ND	0.12	0.056	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.18	0.077	
64-17-5	Ethanol	**880**	12	1.9	**470**	6.2	0.99	
75-05-8	Acetonitrile	ND	1.2	0.42	ND	0.69	0.25	
107-02-8	Acrolein	**2.0**	4.6	0.39	**0.89**	2.0	0.17	**J**
67-64-1	Acetone	**140**	12	1.8	**61**	4.9	0.75	
75-69-4	Trichlorofluoromethane	**1.9**	0.23	0.13	**0.34**	0.041	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.9**	12	0.97	**1.2**	4.7	0.40	**J**
107-13-1	Acrylonitrile	ND	1.2	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.22	ND	0.059	0.054	
75-09-2	Methylene Chloride	**22**	1.2	0.39	**6.4**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.18	ND	0.074	0.056	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.23	0.19	**0.065**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	12	0.35	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.059	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.22	ND	0.064	0.060	
108-05-4	Vinyl Acetate	**2.3**	12	1.5	**0.64**	3.3	0.43	**J**
78-93-3	2-Butanone (MEK)	**1.6**	12	0.49	**0.53**	3.9	0.17	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01042

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.64 Final Pressure (psig): 3.98

Canister Dilution Factor: 2.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.059	0.054	
141-78-6	Ethyl Acetate	**36**	2.3	0.81	**9.9**	0.64	0.23	
110-54-3	n-Hexane	**0.51**	1.2	0.35	**0.14**	0.33	0.099	**J**
67-66-3	Chloroform	ND	0.23	0.21	ND	0.048	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.46	ND	0.39	0.16	
107-06-2	1,2-Dichloroethane	**5.1**	0.23	0.14	**1.3**	0.057	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.043	0.031	
71-43-2	Benzene	**0.84**	0.23	0.18	**0.26**	0.073	0.057	
56-23-5	Carbon Tetrachloride	**0.47**	0.23	0.20	**0.075**	0.037	0.032	
110-82-7	Cyclohexane	ND	2.3	0.67	ND	0.67	0.20	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.042	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.035	0.024	
79-01-6	Trichloroethene	ND	0.23	0.21	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.2	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.72	ND	0.57	0.18	
142-82-5	n-Heptane	**0.40**	1.2	0.39	**0.097**	0.28	0.096	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.32	ND	0.26	0.072	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.37	ND	0.28	0.091	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.37	ND	0.26	0.082	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.19	ND	0.043	0.034	
108-88-3	Toluene	**1.8**	1.2	0.39	**0.48**	0.31	0.10	
591-78-6	2-Hexanone	ND	1.2	0.37	ND	0.28	0.091	
124-48-1	Dibromochloromethane	ND	0.23	0.20	ND	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.20	ND	0.030	0.026	
123-86-4	n-Butyl Acetate	**0.80**	1.2	0.37	**0.17**	0.24	0.078	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01042

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.64 Final Pressure (psig): 3.98

Canister Dilution Factor: 2.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.42	ND	0.25	0.089	
127-18-4	Tetrachloroethene	ND	0.23	0.17	ND	0.034	0.025	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.042	
100-41-4	Ethylbenzene	ND	1.2	0.37	ND	0.27	0.085	
179601-23-1	m,p-Xylenes	ND	1.2	0.67	ND	0.27	0.15	
75-25-2	Bromoform	ND	1.2	0.35	ND	0.11	0.034	
100-42-5	Styrene	ND	1.2	0.35	ND	0.27	0.082	
95-47-6	o-Xylene	ND	1.2	0.35	ND	0.27	0.080	
111-84-2	n-Nonane	**0.75**	1.2	0.35	**0.14**	0.22	0.066	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.034	0.028	
98-82-8	Cumene	ND	1.2	0.35	ND	0.24	0.071	
80-56-8	alpha-Pinene	**1.4**	1.2	0.32	**0.24**	0.21	0.058	
103-65-1	n-Propylbenzene	ND	1.2	0.37	ND	0.24	0.076	
622-96-8	4-Ethyltoluene	ND	1.2	0.37	ND	0.24	0.076	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.37	ND	0.24	0.076	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.35	ND	0.24	0.071	
100-44-7	Benzyl Chloride	ND	1.2	0.26	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.039	0.029	
106-46-7	1,4-Dichlorobenzene	**9.4**	0.23	0.18	**1.6**	0.039	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.22	ND	0.039	0.036	
5989-27-5	d-Limonene	**3.4**	1.2	0.32	**0.61**	0.21	0.058	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.23	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.37	ND	0.16	0.050	
91-20-3	Naphthalene	**1.2**	1.2	0.42	**0.23**	0.22	0.080	
87-68-3	Hexachlorobutadiene	ND	1.2	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832

ALS Sample ID: P1601832-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8	Date Received:	4/7/16
Analyst:	Wida Ang	Date Analyzed:	4/10/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS01042		

Initial Pressure (psig): -6.64 Final Pressure (psig): 3.98

Canister Dilution Factor: 2.32

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.81	1,1-Difluoroethane	**96**	
4.38	Acetaldehyde	**15**	
4.52	Methyl Alcohol	**20**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00773

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.90 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.35

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.0**	1.2	0.33	**0.60**	0.68	0.19	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.2	0.40	**0.43**	0.24	0.081	
74-87-3	Chloromethane	**0.51**	0.47	0.33	**0.25**	0.23	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.45	ND	0.17	0.064	
75-01-4	Vinyl Chloride	ND	0.24	0.22	ND	0.092	0.087	
106-99-0	1,3-Butadiene	ND	0.47	0.33	ND	0.21	0.15	
74-83-9	Bromomethane	ND	0.47	0.22	ND	0.12	0.056	
75-00-3	Chloroethane	ND	0.47	0.20	ND	0.18	0.078	
64-17-5	Ethanol	**18**	12	1.9	**9.7**	6.2	1.0	
75-05-8	Acetonitrile	ND	1.2	0.42	ND	0.70	0.25	
107-02-8	Acrolein	ND	4.7	0.40	ND	2.1	0.17	
67-64-1	Acetone	**11**	12	1.8	**4.8**	4.9	0.76	**J**
75-69-4	Trichlorofluoromethane	**1.1**	0.24	0.13	**0.20**	0.042	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	12	0.99	ND	4.8	0.40	
107-13-1	Acrylonitrile	ND	1.2	0.40	ND	0.54	0.18	
75-35-4	1,1-Dichloroethene	ND	0.24	0.22	ND	0.059	0.055	
75-09-2	Methylene Chloride	**1.8**	1.2	0.40	**0.52**	0.34	0.12	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.24	0.18	ND	0.075	0.057	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.24	0.19	**0.068**	0.031	0.025	
75-15-0	Carbon Disulfide	ND	12	0.35	ND	3.8	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.24	0.21	ND	0.059	0.054	
75-34-3	1,1-Dichloroethane	ND	0.24	0.19	ND	0.058	0.046	
1634-04-4	Methyl tert-Butyl Ether	ND	0.24	0.22	ND	0.065	0.061	
108-05-4	Vinyl Acetate	ND	12	1.5	ND	3.3	0.43	
78-93-3	2-Butanone (MEK)	**0.78**	12	0.49	**0.26**	4.0	0.17	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00773

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.90 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.35

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.24	0.22	ND	0.059	0.055	
141-78-6	Ethyl Acetate	**23**	2.4	0.82	**6.3**	0.65	0.23	
110-54-3	n-Hexane	ND	1.2	0.35	ND	0.33	0.10	
67-66-3	Chloroform	ND	0.24	0.21	ND	0.048	0.043	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.47	ND	0.40	0.16	
107-06-2	1,2-Dichloroethane	ND	0.24	0.15	ND	0.058	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.24	0.17	ND	0.043	0.032	
71-43-2	Benzene	**0.71**	0.24	0.19	**0.22**	0.074	0.058	
56-23-5	Carbon Tetrachloride	**0.46**	0.24	0.20	**0.073**	0.037	0.032	
110-82-7	Cyclohexane	ND	2.4	0.68	ND	0.68	0.20	
78-87-5	1,2-Dichloropropane	ND	0.24	0.20	ND	0.051	0.042	
75-27-4	Bromodichloromethane	ND	0.24	0.16	ND	0.035	0.024	
79-01-6	Trichloroethene	ND	0.24	0.21	ND	0.044	0.039	
123-91-1	1,4-Dioxane	ND	1.2	0.38	ND	0.33	0.10	
80-62-6	Methyl Methacrylate	ND	2.4	0.73	ND	0.57	0.18	
142-82-5	n-Heptane	ND	1.2	0.40	ND	0.29	0.098	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.33	ND	0.26	0.072	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.38	ND	0.29	0.092	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.38	ND	0.26	0.083	
79-00-5	1,1,2-Trichloroethane	ND	0.24	0.19	ND	0.043	0.034	
108-88-3	Toluene	**1.2**	1.2	0.40	**0.31**	0.31	0.11	**J**
591-78-6	2-Hexanone	ND	1.2	0.38	ND	0.29	0.092	
124-48-1	Dibromochloromethane	ND	0.24	0.20	ND	0.028	0.023	
106-93-4	1,2-Dibromoethane	ND	0.24	0.20	ND	0.031	0.026	
123-86-4	n-Butyl Acetate	ND	1.2	0.38	ND	0.25	0.079	

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00773

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.90 Final Pressure (psig): 3.65

Canister Dilution Factor: 2.35

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.42	ND	0.25	0.091	
127-18-4	Tetrachloroethene	ND	0.24	0.17	ND	0.035	0.025	
108-90-7	Chlorobenzene	ND	0.24	0.20	ND	0.051	0.042	
100-41-4	Ethylbenzene	ND	1.2	0.38	ND	0.27	0.087	
179601-23-1	m,p-Xylenes	ND	1.2	0.68	ND	0.27	0.16	
75-25-2	Bromoform	ND	1.2	0.35	ND	0.11	0.034	
100-42-5	Styrene	ND	1.2	0.35	ND	0.28	0.083	
95-47-6	o-Xylene	ND	1.2	0.35	ND	0.27	0.081	
111-84-2	n-Nonane	ND	1.2	0.35	ND	0.22	0.067	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.24	0.20	ND	0.034	0.029	
98-82-8	Cumene	ND	1.2	0.35	ND	0.24	0.072	
80-56-8	alpha-Pinene	ND	1.2	0.33	ND	0.21	0.059	
103-65-1	n-Propylbenzene	ND	1.2	0.38	ND	0.24	0.077	
622-96-8	4-Ethyltoluene	ND	1.2	0.38	ND	0.24	0.077	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.38	ND	0.24	0.077	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.35	ND	0.24	0.072	
100-44-7	Benzyl Chloride	ND	1.2	0.26	ND	0.23	0.050	
541-73-1	1,3-Dichlorobenzene	ND	0.24	0.17	ND	0.039	0.029	
106-46-7	1,4-Dichlorobenzene	ND	0.24	0.18	ND	0.039	0.030	
95-50-1	1,2-Dichlorobenzene	ND	0.24	0.22	ND	0.039	0.036	
5989-27-5	d-Limonene	ND	1.2	0.33	ND	0.21	0.059	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.23	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.38	ND	0.16	0.051	
91-20-3	Naphthalene	ND	1.2	0.42	ND	0.22	0.081	
87-68-3	Hexachlorobutadiene	ND	1.2	0.33	ND	0.11	0.031	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01603

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.24 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.5**	1.1	0.31	**2.6**	0.64	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	1.1	0.37	**0.44**	0.22	0.075	
74-87-3	Chloromethane	**0.59**	0.44	0.31	**0.29**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.060	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.086	0.081	
106-99-0	1,3-Butadiene	ND	0.44	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.44	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.44	0.19	ND	0.17	0.072	
64-17-5	Ethanol	**170**	11	1.8	**89**	5.8	0.93	
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.65	0.23	
107-02-8	Acrolein	**1.5**	4.4	0.37	**0.65**	1.9	0.16	**J**
67-64-1	Acetone	**33**	11	1.7	**14**	4.6	0.71	
75-69-4	Trichlorofluoromethane	**1.3**	0.22	0.12	**0.23**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.0**	11	0.92	**2.4**	4.5	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**21**	1.1	0.37	**6.0**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.070	0.053	
76-13-1	Trichlorotrifluoroethane	**0.41**	0.22	0.18	**0.054**	0.029	0.023	
75-15-0	Carbon Disulfide	ND	11	0.33	ND	3.5	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.054	0.043	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.061	0.057	
108-05-4	Vinyl Acetate	**2.9**	11	1.4	**0.84**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**1.6**	11	0.46	**0.53**	3.7	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01603

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.24 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
141-78-6	Ethyl Acetate	**41**	2.2	0.77	**11**	0.61	0.21	
110-54-3	n-Hexane	**0.67**	1.1	0.33	**0.19**	0.31	0.093	**J**
67-66-3	Chloroform	ND	0.22	0.19	ND	0.045	0.040	
109-99-9	Tetrahydrofuran (THF)	**0.99**	1.1	0.44	**0.33**	0.37	0.15	**J**
107-06-2	1,2-Dichloroethane	**0.31**	0.22	0.14	**0.076**	0.054	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.040	0.030	
71-43-2	Benzene	**0.74**	0.22	0.17	**0.23**	0.069	0.054	
56-23-5	Carbon Tetrachloride	**0.32**	0.22	0.19	**0.051**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.64	ND	0.64	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.041	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.30	0.097	
80-62-6	Methyl Methacrylate	ND	2.2	0.68	ND	0.54	0.17	
142-82-5	n-Heptane	**0.50**	1.1	0.37	**0.12**	0.27	0.091	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.068	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.35	ND	0.27	0.086	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.077	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.040	0.032	
108-88-3	Toluene	**4.0**	1.1	0.37	**1.1**	0.29	0.099	
591-78-6	2-Hexanone	ND	1.1	0.35	ND	0.27	0.086	
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.024	
123-86-4	n-Butyl Acetate	**1.2**	1.1	0.35	**0.25**	0.23	0.074	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P1601832-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01603

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.24 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.084	
127-18-4	Tetrachloroethene	**0.23**	0.22	0.16	**0.033**	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.048	0.039	
100-41-4	Ethylbenzene	**0.47**	1.1	0.35	**0.11**	0.25	0.081	**J**
179601-23-1	m,p-Xylenes	**1.5**	1.1	0.64	**0.35**	0.25	0.15	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	ND	1.1	0.33	ND	0.26	0.077	
95-47-6	o-Xylene	**0.48**	1.1	0.33	**0.11**	0.25	0.076	**J**
111-84-2	n-Nonane	ND	1.1	0.33	ND	0.21	0.063	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.032	0.027	
98-82-8	Cumene	ND	1.1	0.33	ND	0.22	0.067	
80-56-8	alpha-Pinene	**0.88**	1.1	0.31	**0.16**	0.20	0.055	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.071	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.071	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.071	
95-63-6	1,2,4-Trimethylbenzene	**0.37**	1.1	0.33	**0.076**	0.22	0.067	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.17	ND	0.036	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.034	
5989-27-5	d-Limonene	**3.9**	1.1	0.31	**0.70**	0.20	0.055	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	ND	1.1	0.39	ND	0.21	0.075	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P160409-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832

ALS Sample ID: P160409-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601832

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Collected: 4/5/16
Analyst: Wida Ang Date(s) Received: 4/7/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/9 - 4/10/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160409-MB	**105**	**97**	**102**	70-130	
	P160409-LCS	**101**	**94**	**105**	70-130	
	P1601832-001	**102**	**97**	**102**	70-130	
	P1601832-002	**102**	**97**	**101**	70-130	
	P1601832-003	**103**	**97**	**101**	70-130	
	P1601832-004	**103**	**97**	**102**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**176**	**90**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**171**	**91**	65-117	
74-87-3	Chloromethane	200	**211**	**106**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**181**	**89**	65-122	
75-01-4	Vinyl Chloride	200	**209**	**105**	65-128	
106-99-0	1,3-Butadiene	206	**217**	**105**	62-143	
74-83-9	Bromomethane	202	**199**	**99**	65-130	
75-00-3	Chloroethane	200	**191**	**96**	69-126	
64-17-5	Ethanol	998	**912**	**91**	57-126	
75-05-8	Acetonitrile	212	**190**	**90**	51-134	
107-02-8	Acrolein	214	**196**	**92**	55-146	
67-64-1	Acetone	1,080	**899**	**83**	57-120	
75-69-4	Trichlorofluoromethane	216	**172**	**80**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**394**	**94**	59-129	
107-13-1	Acrylonitrile	212	**214**	**101**	64-136	
75-35-4	1,1-Dichloroethene	216	**206**	**95**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**235**	**108**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**196**	**89**	68-118	
75-15-0	Carbon Disulfide	210	**157**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**211**	**100**	69-129	
75-34-3	1,1-Dichloroethane	212	**194**	**92**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**197**	**91**	55-128	
108-05-4	Vinyl Acetate	1,040	**1080**	**104**	66-140	
78-93-3	2-Butanone (MEK)	220	**168**	**76**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**212**	**97**	65-125	
141-78-6	Ethyl Acetate	428	**413**	**96**	64-132	
110-54-3	n-Hexane	212	**160**	**75**	58-126	
67-66-3	Chloroform	224	**198**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**210**	**95**	64-123	
107-06-2	1,2-Dichloroethane	214	**198**	**93**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**206**	**98**	68-120	
71-43-2	Benzene	226	**193**	**85**	61-110	
56-23-5	Carbon Tetrachloride	230	**218**	**95**	65-137	
110-82-7	Cyclohexane	424	**383**	**90**	68-122	
78-87-5	1,2-Dichloropropane	216	**203**	**94**	67-122	
75-27-4	Bromodichloromethane	218	**221**	**101**	71-124	
79-01-6	Trichloroethene	216	**191**	**88**	71-121	
123-91-1	1,4-Dioxane	210	**226**	**108**	67-122	
80-62-6	Methyl Methacrylate	422	**398**	**94**	76-130	
142-82-5	n-Heptane	216	**189**	**88**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**210**	**101**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**218**	**99**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**222**	**106**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**209**	**97**	73-121	
108-88-3	Toluene	218	**155**	**71**	67-117	
591-78-6	2-Hexanone	220	**208**	**95**	59-128	
124-48-1	Dibromochloromethane	220	**219**	**100**	73-132	
106-93-4	1,2-Dibromoethane	218	**206**	**94**	73-128	
123-86-4	n-Butyl Acetate	226	**227**	**100**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601832
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**183**	**87**	67-124	
127-18-4	Tetrachloroethene	202	**173**	**86**	65-126	
108-90-7	Chlorobenzene	220	**189**	**86**	68-120	
100-41-4	Ethylbenzene	218	**192**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**373**	**87**	67-125	
75-25-2	Bromoform	228	**219**	**96**	68-153	
100-42-5	Styrene	222	**215**	**97**	68-132	
95-47-6	o-Xylene	210	**185**	**88**	67-124	
111-84-2	n-Nonane	204	**187**	**92**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**195**	**93**	72-128	
98-82-8	Cumene	208	**182**	**88**	67-124	
80-56-8	alpha-Pinene	212	**191**	**90**	67-129	
103-65-1	n-Propylbenzene	204	**185**	**91**	67-125	
622-96-8	4-Ethyltoluene	214	**196**	**92**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**189**	**88**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**196**	**90**	62-134	
100-44-7	Benzyl Chloride	220	**242**	**110**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**201**	**88**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**189**	**91**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**198**	**90**	62-134	
5989-27-5	d-Limonene	210	**203**	**97**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**223**	**102**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**208**	**90**	60-145	
91-20-3	Naphthalene	218	**201**	**92**	56-158	
87-68-3	Hexachlorobutadiene	230	**193**	**84**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 12, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601833.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 10:22 am, Apr 12, 2016

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601833
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

A leak tight connection with the autosampler was not achieved for the samples identified as 111-SU-G (P1601833-003) and 111-SU-D (P1601833-004). The samples were analyzed and reported; however, the results from these samples should be considered estimated and utilized accordingly.

Three of the four containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601833
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 10:16

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601833-001	Air	4/5/2016	10:50	AS00543	-6.74	3.78	X
	P1601833-002	Air	4/5/2016	13:35	CC00210	-1.62	3.99	X
	P1601833-003	Air	4/5/2016	15:02	CC00204	-0.65	3.80	X
	P1601833-004	Air	4/5/2016	15:07	CC00209	-1.88	3.79	X

PIC01833

AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-5-16
	Project Location: Aliso Canyon	LA Co. CIH - Jim Y.	
	Client Reference: Los Angeles County	Industrial Hygienist: Hovanes Dekegyan, Wallace Somico (Samplers)	
	Rotameter: —	Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
67-SU	↓	↓	-28.5	-13	1132	1050	1398		South - Living/Dining Room Table *smoking odor* Entech # 4672 - Summa Regulator - McDaniel # FCRC0120
			Avg:						
115-SU			-28.5	-3	1358	1335	1417		Summa - Restek SN 5261 N. end of home Reg. - FCRC0112 (McDaniel) Dining Room table
			Avg:						
111-SU-G			-28	0	1542	1502	1400		Summa - Restek SN 1151 Reg. - McDaniel # FCRC0145 West - Dining Room Table
			Avg:						
111-SU-D			-29	-12*	1535	1507	1412		Summa - Restek SN 3583 Reg McDaniel # FTR7602 West Dining Room table
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods * Valve on regulator not fully closed when unscrewed from canister, resulting in suction. Quickly closed; pressure re-measured at -1.5 in/Hg. *

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Relinquished by:	Wallace Somicos	Date: 4/6/16	Time: 1552	Received by:	Date: 4/6/16	Time: 1554
Relinquished by:		Date: 4/7/16	Time: 949	Received by:	Date: 4/7/16	Time: 948
Relinquished by:		Date: 4/7/16	Time: 1016	Received by:	Date: 4/7/16	Time: 1016

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601833

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601833-001.01	6.0 L Silonite Can					
P1601833-002.01	Canister					
P1601833-003.01	Canister					
P1601833-004.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00543

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.74 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**12**	1.2	0.32	**7.0**	0.67	0.19	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.2	0.39	**0.38**	0.23	0.080	
74-87-3	Chloromethane	**0.84**	0.46	0.32	**0.40**	0.22	0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	0.44	ND	0.17	0.063	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.091	0.086	
106-99-0	1,3-Butadiene	ND	0.46	0.32	ND	0.21	0.15	
74-83-9	Bromomethane	ND	0.46	0.22	ND	0.12	0.056	
75-00-3	Chloroethane	ND	0.46	0.20	ND	0.18	0.077	
64-17-5	Ethanol	**160**	12	1.9	**87**	6.2	0.99	
75-05-8	Acetonitrile	**0.71**	1.2	0.42	**0.42**	0.69	0.25	**J**
107-02-8	Acrolein	**2.2**	4.6	0.39	**0.97**	2.0	0.17	**J**
67-64-1	Acetone	**27**	12	1.8	**11**	4.9	0.75	
75-69-4	Trichlorofluoromethane	**1.7**	0.23	0.13	**0.30**	0.041	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	**22**	12	0.97	**9.0**	4.7	0.40	
107-13-1	Acrylonitrile	ND	1.2	0.39	ND	0.53	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.22	ND	0.059	0.054	
75-09-2	Methylene Chloride	**160**	1.2	0.39	**45**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.18	ND	0.074	0.056	
76-13-1	Trichlorotrifluoroethane	**0.76**	0.23	0.19	**0.10**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	12	0.35	ND	3.7	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.059	0.053	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.057	0.045	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.22	ND	0.064	0.060	
108-05-4	Vinyl Acetate	ND	12	1.5	ND	3.3	0.43	
78-93-3	2-Butanone (MEK)	**1.7**	12	0.49	**0.58**	3.9	0.17	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00543

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.74 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.059	0.054	
141-78-6	Ethyl Acetate	**23**	2.3	0.81	**6.4**	0.64	0.23	
110-54-3	n-Hexane	**0.54**	1.2	0.35	**0.15**	0.33	0.099	**J**
67-66-3	Chloroform	**0.35**	0.23	0.21	**0.071**	0.048	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	0.46	ND	0.39	0.16	
107-06-2	1,2-Dichloroethane	**0.26**	0.23	0.14	**0.065**	0.057	0.036	
71-55-6	1,1,1-Trichloroethane	**1.1**	0.23	0.17	**0.21**	0.043	0.031	
71-43-2	Benzene	**0.56**	0.23	0.18	**0.18**	0.073	0.057	
56-23-5	Carbon Tetrachloride	**0.39**	0.23	0.20	**0.062**	0.037	0.032	
110-82-7	Cyclohexane	ND	2.3	0.67	ND	0.67	0.20	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.050	0.042	
75-27-4	Bromodichloromethane	ND	0.23	0.16	ND	0.035	0.024	
79-01-6	Trichloroethene	ND	0.23	0.21	ND	0.043	0.038	
123-91-1	1,4-Dioxane	ND	1.2	0.37	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.72	ND	0.57	0.18	
142-82-5	n-Heptane	ND	1.2	0.39	ND	0.28	0.096	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.32	ND	0.26	0.072	
108-10-1	4-Methyl-2-pentanone	ND	1.2	0.37	ND	0.28	0.091	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.37	ND	0.26	0.082	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.19	ND	0.043	0.034	
108-88-3	Toluene	**3.3**	1.2	0.39	**0.87**	0.31	0.10	
591-78-6	2-Hexanone	ND	1.2	0.37	ND	0.28	0.091	
124-48-1	Dibromochloromethane	**0.22**	0.23	0.20	**0.025**	0.027	0.023	**J**
106-93-4	1,2-Dibromoethane	ND	0.23	0.20	ND	0.030	0.026	
123-86-4	n-Butyl Acetate	ND	1.2	0.37	ND	0.24	0.078	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00543

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.74 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.2	0.42	ND	0.25	0.089	
127-18-4	Tetrachloroethene	ND	0.23	0.17	ND	0.034	0.025	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.050	0.042	
100-41-4	Ethylbenzene	ND	1.2	0.37	ND	0.27	0.085	
179601-23-1	m,p-Xylenes	ND	1.2	0.67	ND	0.27	0.15	
75-25-2	Bromoform	ND	1.2	0.35	ND	0.11	0.034	
100-42-5	Styrene	ND	1.2	0.35	ND	0.27	0.082	
95-47-6	o-Xylene	ND	1.2	0.35	ND	0.27	0.080	
111-84-2	n-Nonane	**0.44**	1.2	0.35	**0.084**	0.22	0.066	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.034	0.028	
98-82-8	Cumene	ND	1.2	0.35	ND	0.24	0.071	
80-56-8	alpha-Pinene	**1.2**	1.2	0.32	**0.21**	0.21	0.058	**J**
103-65-1	n-Propylbenzene	ND	1.2	0.37	ND	0.24	0.076	
622-96-8	4-Ethyltoluene	ND	1.2	0.37	ND	0.24	0.076	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	0.37	ND	0.24	0.076	
95-63-6	1,2,4-Trimethylbenzene	ND	1.2	0.35	ND	0.24	0.071	
100-44-7	Benzyl Chloride	ND	1.2	0.26	ND	0.22	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.039	0.029	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.18	ND	0.039	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.22	ND	0.039	0.036	
5989-27-5	d-Limonene	**9.3**	1.2	0.32	**1.7**	0.21	0.058	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	0.23	ND	0.12	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.37	ND	0.16	0.050	
91-20-3	Naphthalene	ND	1.2	0.42	ND	0.22	0.080	
87-68-3	Hexachlorobutadiene	ND	1.2	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00210

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -1.62 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**6.3**	0.72	0.20	**3.6**	0.42	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	0.72	0.24	**0.37**	0.14	0.049	
74-87-3	Chloromethane	**0.62**	0.29	0.20	**0.30**	0.14	0.097	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.72	0.27	ND	0.10	0.039	
75-01-4	Vinyl Chloride	ND	0.14	0.14	ND	0.056	0.053	
106-99-0	1,3-Butadiene	ND	0.29	0.20	ND	0.13	0.091	
74-83-9	Bromomethane	ND	0.29	0.13	ND	0.074	0.034	
75-00-3	Chloroethane	ND	0.29	0.12	ND	0.11	0.047	
64-17-5	Ethanol	**120**	7.2	1.1	**61**	3.8	0.61	
75-05-8	Acetonitrile	ND	0.72	0.26	ND	0.43	0.15	
107-02-8	Acrolein	**2.7**	2.9	0.24	**1.2**	1.2	0.11	**J**
67-64-1	Acetone	**5,000**	72	11	**2,100**	30	4.6	**D**
75-69-4	Trichlorofluoromethane	**1.1**	0.14	0.082	**0.19**	0.025	0.015	
67-63-0	2-Propanol (Isopropyl Alcohol)	**12**	7.2	0.60	**5.0**	2.9	0.24	
107-13-1	Acrylonitrile	ND	0.72	0.24	ND	0.33	0.11	
75-35-4	1,1-Dichloroethene	ND	0.14	0.13	ND	0.036	0.034	
75-09-2	Methylene Chloride	**180**	7.2	2.4	**51**	2.1	0.70	**D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	0.11	ND	0.046	0.035	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.14	0.11	**0.062**	0.019	0.015	
75-15-0	Carbon Disulfide	**1.5**	7.2	0.21	**0.48**	2.3	0.069	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.13	ND	0.036	0.033	
75-34-3	1,1-Dichloroethane	ND	0.14	0.11	ND	0.035	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	0.13	ND	0.040	0.037	
108-05-4	Vinyl Acetate	ND	7.2	0.93	ND	2.0	0.26	
78-93-3	2-Butanone (MEK)	**11**	7.2	0.30	**3.7**	2.4	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00210

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -1.62 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.13	ND	0.036	0.033	
141-78-6	Ethyl Acetate	**11**	1.4	0.50	**2.9**	0.40	0.14	
110-54-3	n-Hexane	**0.44**	0.72	0.21	**0.13**	0.20	0.061	**J**
67-66-3	Chloroform	**0.33**	0.14	0.13	**0.067**	0.029	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.72	0.29	ND	0.24	0.097	
107-06-2	1,2-Dichloroethane	**0.18**	0.14	0.089	**0.045**	0.035	0.022	
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.11	ND	0.026	0.019	
71-43-2	Benzene	**0.45**	0.14	0.11	**0.14**	0.045	0.035	
56-23-5	Carbon Tetrachloride	**0.41**	0.14	0.12	**0.065**	0.023	0.020	
110-82-7	Cyclohexane	ND	1.4	0.41	ND	0.42	0.12	
78-87-5	1,2-Dichloropropane	**0.12**	0.14	0.12	**0.026**	0.031	0.026	**J**
75-27-4	Bromodichloromethane	ND	0.14	0.097	ND	0.021	0.015	
79-01-6	Trichloroethene	ND	0.14	0.13	ND	0.027	0.024	
123-91-1	1,4-Dioxane	ND	0.72	0.23	ND	0.20	0.064	
80-62-6	Methyl Methacrylate	ND	1.4	0.44	ND	0.35	0.11	
142-82-5	n-Heptane	**0.56**	0.72	0.24	**0.14**	0.17	0.059	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	0.20	ND	0.16	0.044	
108-10-1	4-Methyl-2-pentanone	**0.34**	0.72	0.23	**0.082**	0.17	0.056	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	0.23	ND	0.16	0.050	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.11	ND	0.026	0.021	
108-88-3	Toluene	**3.3**	0.72	0.24	**0.89**	0.19	0.065	
591-78-6	2-Hexanone	**0.52**	0.72	0.23	**0.13**	0.17	0.056	**J**
124-48-1	Dibromochloromethane	ND	0.14	0.12	ND	0.017	0.014	
106-93-4	1,2-Dibromoethane	ND	0.14	0.12	ND	0.019	0.016	
123-86-4	n-Butyl Acetate	**1.6**	0.72	0.23	**0.34**	0.15	0.048	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00210

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -1.62 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.28**	0.72	0.26	**0.060**	0.15	0.055	**J**
127-18-4	Tetrachloroethene	**0.25**	0.14	0.10	**0.037**	0.021	0.015	
108-90-7	Chlorobenzene	ND	0.14	0.12	ND	0.031	0.026	
100-41-4	Ethylbenzene	**0.38**	0.72	0.23	**0.087**	0.16	0.053	**J**
179601-23-1	m,p-Xylenes	**0.80**	0.72	0.41	**0.18**	0.16	0.096	
75-25-2	Bromoform	ND	0.72	0.21	ND	0.069	0.021	
100-42-5	Styrene	**0.45**	0.72	0.21	**0.11**	0.17	0.050	**J**
95-47-6	o-Xylene	**0.33**	0.72	0.21	**0.075**	0.16	0.049	**J**
111-84-2	n-Nonane	**0.30**	0.72	0.21	**0.057**	0.14	0.041	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.12	ND	0.021	0.017	
98-82-8	Cumene	ND	0.72	0.21	ND	0.15	0.044	
80-56-8	alpha-Pinene	**2.5**	0.72	0.20	**0.45**	0.13	0.036	
103-65-1	n-Propylbenzene	ND	0.72	0.23	ND	0.15	0.047	
622-96-8	4-Ethyltoluene	ND	0.72	0.23	ND	0.15	0.047	
108-67-8	1,3,5-Trimethylbenzene	ND	0.72	0.23	ND	0.15	0.047	
95-63-6	1,2,4-Trimethylbenzene	ND	0.72	0.21	ND	0.15	0.044	
100-44-7	Benzyl Chloride	ND	0.72	0.16	ND	0.14	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.14	0.11	ND	0.024	0.018	
106-46-7	1,4-Dichlorobenzene	**0.11**	0.14	0.11	**0.019**	0.024	0.018	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.14	0.13	ND	0.024	0.022	
5989-27-5	d-Limonene	**3.6**	0.72	0.20	**0.64**	0.13	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.72	0.14	ND	0.074	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.72	0.23	ND	0.096	0.031	
91-20-3	Naphthalene	ND	0.72	0.26	ND	0.14	0.049	
87-68-3	Hexachlorobutadiene	ND	0.72	0.20	ND	0.067	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/7/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	CC00210		

Initial Pressure (psig): -1.62 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.43

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
21.99	Unidentified Siloxane	**38**	
24.28	Tetradecane	**18**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00204

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.65 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.4**	0.66	0.18	**1.4**	0.38	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.66	0.22	**0.45**	0.13	0.045	
74-87-3	Chloromethane	**0.56**	0.26	0.18	**0.27**	0.13	0.090	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	0.25	ND	0.094	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.13	ND	0.052	0.049	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.084	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.068	0.032	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.10	0.044	
64-17-5	Ethanol	**83**	6.6	1.1	**44**	3.5	0.56	
75-05-8	Acetonitrile	**1.9**	0.66	0.24	**1.1**	0.39	0.14	
107-02-8	Acrolein	**2.2**	2.6	0.22	**0.95**	1.2	0.098	**J**
67-64-1	Acetone	**32**	6.6	1.0	**13**	2.8	0.43	
75-69-4	Trichlorofluoromethane	**1.2**	0.13	0.075	**0.21**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.3**	6.6	0.55	**1.3**	2.7	0.23	**J**
107-13-1	Acrylonitrile	ND	0.66	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
75-09-2	Methylene Chloride	**76**	0.66	0.22	**22**	0.19	0.065	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.042	0.032	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.13	0.11	**0.069**	0.017	0.014	
75-15-0	Carbon Disulfide	**2.2**	6.6	0.20	**0.71**	2.1	0.064	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.033	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.037	0.034	
108-05-4	Vinyl Acetate	**4.8**	6.6	0.86	**1.4**	1.9	0.24	**J**
78-93-3	2-Butanone (MEK)	**14**	6.6	0.28	**4.6**	2.2	0.094	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00204

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.65 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
141-78-6	Ethyl Acetate	**6.4**	1.3	0.46	**1.8**	0.37	0.13	
110-54-3	n-Hexane	**0.99**	0.66	0.20	**0.28**	0.19	0.056	
67-66-3	Chloroform	**0.25**	0.13	0.12	**0.052**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	**1.8**	0.66	0.26	**0.60**	0.22	0.090	
107-06-2	1,2-Dichloroethane	**1.7**	0.13	0.082	**0.42**	0.033	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.098	ND	0.024	0.018	
71-43-2	Benzene	**0.38**	0.13	0.10	**0.12**	0.041	0.033	
56-23-5	Carbon Tetrachloride	**0.42**	0.13	0.11	**0.067**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.38	ND	0.38	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	ND	0.13	0.090	ND	0.020	0.013	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.025	0.022	
123-91-1	1,4-Dioxane	ND	0.66	0.21	ND	0.18	0.059	
80-62-6	Methyl Methacrylate	**4.7**	1.3	0.41	**1.2**	0.32	0.10	
142-82-5	n-Heptane	**0.34**	0.66	0.22	**0.082**	0.16	0.055	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	0.18	ND	0.15	0.041	
108-10-1	4-Methyl-2-pentanone	**1.2**	0.66	0.21	**0.29**	0.16	0.052	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	0.21	ND	0.15	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.11	ND	0.024	0.019	
108-88-3	Toluene	**23**	0.66	0.22	**6.2**	0.18	0.060	
591-78-6	2-Hexanone	ND	0.66	0.21	ND	0.16	0.052	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.016	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.015	
123-86-4	n-Butyl Acetate	**1.1**	0.66	0.21	**0.22**	0.14	0.044	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00204

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.65 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	0.24	ND	0.14	0.051	
127-18-4	Tetrachloroethene	ND	0.13	0.095	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.029	0.024	
100-41-4	Ethylbenzene	**0.35**	0.66	0.21	**0.080**	0.15	0.049	**J**
179601-23-1	m,p-Xylenes	**1.1**	0.66	0.38	**0.24**	0.15	0.088	
75-25-2	Bromoform	**0.20**	0.66	0.20	**0.019**	0.064	0.019	**J**
100-42-5	Styrene	**0.27**	0.66	0.20	**0.065**	0.16	0.047	**J**
95-47-6	o-Xylene	**0.42**	0.66	0.20	**0.097**	0.15	0.046	**J**
111-84-2	n-Nonane	**0.51**	0.66	0.20	**0.097**	0.13	0.038	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.66	0.20	ND	0.13	0.040	
80-56-8	alpha-Pinene	**1.6**	0.66	0.18	**0.29**	0.12	0.033	
103-65-1	n-Propylbenzene	**0.27**	0.66	0.21	**0.054**	0.13	0.043	**J**
622-96-8	4-Ethyltoluene	**0.37**	0.66	0.21	**0.076**	0.13	0.043	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.48**	0.66	0.21	**0.097**	0.13	0.043	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.9**	0.66	0.20	**0.39**	0.13	0.040	
100-44-7	Benzyl Chloride	ND	0.66	0.15	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.098	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.10	ND	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.020	
5989-27-5	d-Limonene	**2.1**	0.66	0.18	**0.37**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.66	0.13	ND	0.068	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.66	0.21	ND	0.089	0.028	
91-20-3	Naphthalene	ND	0.66	0.24	ND	0.13	0.045	
87-68-3	Hexachlorobutadiene	ND	0.66	0.18	ND	0.062	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/7/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00204		

Initial Pressure (psig): -0.65 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.32

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.60	Isobutane	**14**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00209

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.88 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.1**	0.72	0.20	**1.8**	0.42	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.72	0.24	**0.42**	0.15	0.050	
74-87-3	Chloromethane	**0.57**	0.29	0.20	**0.28**	0.14	0.098	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.72	0.27	ND	0.10	0.039	
75-01-4	Vinyl Chloride	ND	0.14	0.14	ND	0.056	0.054	
106-99-0	1,3-Butadiene	ND	0.29	0.20	ND	0.13	0.091	
74-83-9	Bromomethane	ND	0.29	0.13	ND	0.074	0.035	
75-00-3	Chloroethane	ND	0.29	0.13	ND	0.11	0.047	
64-17-5	Ethanol	**160**	7.2	1.2	**86**	3.8	0.61	
75-05-8	Acetonitrile	**1.4**	0.72	0.26	**0.85**	0.43	0.15	
107-02-8	Acrolein	**4.3**	2.9	0.24	**1.9**	1.3	0.11	
67-64-1	Acetone	**37**	7.2	1.1	**16**	3.0	0.47	
75-69-4	Trichlorofluoromethane	**1.1**	0.14	0.082	**0.20**	0.026	0.015	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.2**	7.2	0.60	**1.7**	2.9	0.25	**J**
107-13-1	Acrylonitrile	ND	0.72	0.24	ND	0.33	0.11	
75-35-4	1,1-Dichloroethene	ND	0.14	0.13	ND	0.036	0.034	
75-09-2	Methylene Chloride	**8.8**	0.72	0.24	**2.5**	0.21	0.070	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	0.11	ND	0.046	0.035	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.14	0.12	**0.061**	0.019	0.015	
75-15-0	Carbon Disulfide	**3.1**	7.2	0.22	**1.0**	2.3	0.069	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.13	ND	0.036	0.033	
75-34-3	1,1-Dichloroethane	ND	0.14	0.11	ND	0.036	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	0.13	ND	0.040	0.037	
108-05-4	Vinyl Acetate	ND	7.2	0.94	ND	2.0	0.27	
78-93-3	2-Butanone (MEK)	**5.6**	7.2	0.30	**1.9**	2.4	0.10	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00209

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.88 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.13	ND	0.036	0.033	
141-78-6	Ethyl Acetate	**4.1**	1.4	0.50	**1.1**	0.40	0.14	
110-54-3	n-Hexane	**0.76**	0.72	0.22	**0.21**	0.20	0.061	
67-66-3	Chloroform	**0.37**	0.14	0.13	**0.076**	0.029	0.026	
109-99-9	Tetrahydrofuran (THF)	**2.6**	0.72	0.29	**0.89**	0.24	0.098	
107-06-2	1,2-Dichloroethane	**3.0**	0.14	0.089	**0.75**	0.036	0.022	
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.11	ND	0.026	0.020	
71-43-2	Benzene	**0.34**	0.14	0.11	**0.11**	0.045	0.036	
56-23-5	Carbon Tetrachloride	**0.41**	0.14	0.12	**0.065**	0.023	0.020	
110-82-7	Cyclohexane	ND	1.4	0.42	ND	0.42	0.12	
78-87-5	1,2-Dichloropropane	ND	0.14	0.12	ND	0.031	0.026	
75-27-4	Bromodichloromethane	ND	0.14	0.098	ND	0.022	0.015	
79-01-6	Trichloroethene	ND	0.14	0.13	ND	0.027	0.024	
123-91-1	1,4-Dioxane	ND	0.72	0.23	ND	0.20	0.064	
80-62-6	Methyl Methacrylate	**7.0**	1.4	0.45	**1.7**	0.35	0.11	
142-82-5	n-Heptane	**0.50**	0.72	0.24	**0.12**	0.18	0.060	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	0.20	ND	0.16	0.044	
108-10-1	4-Methyl-2-pentanone	**2.1**	0.72	0.23	**0.50**	0.18	0.056	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	0.23	ND	0.16	0.051	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.12	ND	0.026	0.021	
108-88-3	Toluene	**15**	0.72	0.24	**4.0**	0.19	0.065	
591-78-6	2-Hexanone	**0.34**	0.72	0.23	**0.084**	0.18	0.056	**J**
124-48-1	Dibromochloromethane	**0.14**	0.14	0.12	**0.016**	0.017	0.014	**J**
106-93-4	1,2-Dibromoethane	ND	0.14	0.12	ND	0.019	0.016	
123-86-4	n-Butyl Acetate	**1.8**	0.72	0.23	**0.37**	0.15	0.049	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00209

Date Collected: 4/5/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.88 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.72	0.26	ND	0.15	0.056	
127-18-4	Tetrachloroethene	ND	0.14	0.10	ND	0.021	0.015	
108-90-7	Chlorobenzene	ND	0.14	0.12	ND	0.031	0.026	
100-41-4	Ethylbenzene	**0.35**	0.72	0.23	**0.082**	0.17	0.053	**J**
179601-23-1	m,p-Xylenes	**1.1**	0.72	0.42	**0.25**	0.17	0.096	
75-25-2	Bromoform	**0.40**	0.72	0.22	**0.039**	0.070	0.021	**J**
100-42-5	Styrene	**0.35**	0.72	0.22	**0.081**	0.17	0.051	**J**
95-47-6	o-Xylene	**0.56**	0.72	0.22	**0.13**	0.17	0.050	**J**
111-84-2	n-Nonane	**0.85**	0.72	0.22	**0.16**	0.14	0.041	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.12	ND	0.021	0.018	
98-82-8	Cumene	ND	0.72	0.22	ND	0.15	0.044	
80-56-8	alpha-Pinene	**2.1**	0.72	0.20	**0.37**	0.13	0.036	
103-65-1	n-Propylbenzene	**0.46**	0.72	0.23	**0.094**	0.15	0.047	**J**
622-96-8	4-Ethyltoluene	**0.67**	0.72	0.23	**0.14**	0.15	0.047	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.90**	0.72	0.23	**0.18**	0.15	0.047	
95-63-6	1,2,4-Trimethylbenzene	**3.5**	0.72	0.22	**0.71**	0.15	0.044	
100-44-7	Benzyl Chloride	ND	0.72	0.16	ND	0.14	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.14	0.11	ND	0.024	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.14	0.11	ND	0.024	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.14	0.13	ND	0.024	0.022	
5989-27-5	d-Limonene	**3.9**	0.72	0.20	**0.70**	0.13	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.72	0.14	ND	0.075	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.72	0.23	ND	0.097	0.031	
91-20-3	Naphthalene	ND	0.72	0.26	ND	0.14	0.049	
87-68-3	Hexachlorobutadiene	ND	0.72	0.20	ND	0.068	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P1601833-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/5/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/7/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00209		

Initial Pressure (psig): -1.88 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.44

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.04	Sulfur Dioxide	**99**	
4.61	Isobutane	**18**	
21.99	Unidentified Siloxane	**30**	

T = Analyte is a tentatively identified compound, result is estimated.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833

ALS Sample ID: P160410-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601833

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 4/5/16
Analyst: Evelyn Alvarez Date(s) Received: 4/7/16
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 4/10/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160410-MB	**98**	**100**	**98**	70-130	
	P160410-LCS	**98**	**98**	**101**	70-130	
	P1601833-001	**99**	**98**	**100**	70-130	
	P1601833-001DUP	**99**	**98**	**100**	70-130	
	P1601833-002	**98**	**98**	**100**	70-130	
	P1601833-003	**98**	**99**	**103**	70-130	
	P1601833-004	**98**	**98**	**100**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**183**	**92**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**158**	**77**	65-122	
75-01-4	Vinyl Chloride	200	**183**	**92**	65-128	
106-99-0	1,3-Butadiene	206	**205**	**100**	62-143	
74-83-9	Bromomethane	202	**179**	**89**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**951**	**95**	57-126	
75-05-8	Acetonitrile	212	**199**	**94**	51-134	
107-02-8	Acrolein	214	**206**	**96**	55-146	
67-64-1	Acetone	1,080	**1090**	**101**	57-120	
75-69-4	Trichlorofluoromethane	216	**156**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**418**	**100**	59-129	
107-13-1	Acrylonitrile	212	**225**	**106**	64-136	
75-35-4	1,1-Dichloroethene	216	**198**	**92**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**220**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**189**	**86**	68-118	
75-15-0	Carbon Disulfide	210	**153**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**183**	**85**	55-128	
108-05-4	Vinyl Acetate	1,040	**1090**	**105**	66-140	
78-93-3	2-Butanone (MEK)	220	**232**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**478**	**112**	64-132	
110-54-3	n-Hexane	212	**204**	**96**	58-126	
67-66-3	Chloroform	224	**195**	**87**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**199**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**182**	**85**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**169**	**80**	68-120	
71-43-2	Benzene	226	**195**	**86**	61-110	
56-23-5	Carbon Tetrachloride	230	**177**	**77**	65-137	
110-82-7	Cyclohexane	424	**387**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**191**	**88**	71-124	
79-01-6	Trichloroethene	216	**174**	**81**	71-121	
123-91-1	1,4-Dioxane	210	**216**	**103**	67-122	
80-62-6	Methyl Methacrylate	422	**435**	**103**	76-130	
142-82-5	n-Heptane	216	**203**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**242**	**110**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**208**	**99**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**197**	**91**	73-121	
108-88-3	Toluene	218	**183**	**84**	67-117	
591-78-6	2-Hexanone	220	**232**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**194**	**88**	73-132	
106-93-4	1,2-Dibromoethane	218	**200**	**92**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**198**	**94**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**185**	**84**	68-120	
100-41-4	Ethylbenzene	218	**191**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**381**	**89**	67-125	
75-25-2	Bromoform	228	**194**	**85**	68-153	
100-42-5	Styrene	222	**202**	**91**	68-132	
95-47-6	o-Xylene	210	**185**	**88**	67-124	
111-84-2	n-Nonane	204	**204**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**201**	**96**	72-128	
98-82-8	Cumene	208	**179**	**86**	67-124	
80-56-8	alpha-Pinene	212	**192**	**91**	67-129	
103-65-1	n-Propylbenzene	204	**185**	**91**	67-125	
622-96-8	4-Ethyltoluene	214	**187**	**87**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**185**	**86**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**196**	**90**	62-134	
100-44-7	Benzyl Chloride	220	**197**	**90**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**197**	**86**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**186**	**89**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**190**	**86**	62-134	
5989-27-5	d-Limonene	210	**211**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**178**	**82**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**175**	**76**	60-145	
91-20-3	Naphthalene	218	**163**	**75**	56-158	
87-68-3	Hexachlorobutadiene	230	**174**	**76**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00543

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.74 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.32

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result** ppbV	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
Propene	12.0	6.98	12.7	7.39	12.35	**6**	25	
Dichlorodifluoromethane (CFC 12)	1.90	0.383	1.87	0.379	1.885	**2**	25	
Chloromethane	0.835	0.405	0.664	0.321	0.7495	**23**	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	165	87.4	165	87.5	165	**0**	25	
Acetonitrile	0.708	0.422	0.689	0.411	0.6985	**3**	25	**J**
Acrolein	2.23	0.974	2.20	0.959	2.215	**1**	25	**J**
Acetone	26.7	11.3	26.5	11.2	26.6	**0.8**	25	
Trichlorofluoromethane	1.69	0.301	1.65	0.294	1.67	**2**	25	
2-Propanol (Isopropyl Alcohol)	22.1	9.01	21.6	8.79	21.85	**2**	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	158	45.5	159	45.8	158.5	**0.6**	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.763	0.100	0.759	0.0990	0.761	**0.5**	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	1.70	0.577	1.72	0.585	1.71	**1**	25	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00543

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.74 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.32

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result **µg/m³**	Duplicate Sample Result **ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	23.0	6.38	23.1	6.41	23.05	**0.4**	25	
n-Hexane	0.538	0.153	0.559	0.159	0.5485	**4**	25	**J**
Chloroform	0.346	0.0708	0.353	0.0722	0.3495	**2**	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	0.264	0.0654	0.288	0.0711	0.276	**9**	25	
1,1,1-Trichloroethane	1.12	0.205	1.12	0.205	1.12	**0**	25	
Benzene	0.561	0.176	0.557	0.174	0.559	**0.7**	25	
Carbon Tetrachloride	0.392	0.0624	0.408	0.0649	0.4	**4**	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	3.26	0.867	3.29	0.873	3.275	**0.9**	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	0.216	0.0253	0.230	0.0270	0.223	**6**	25	**J**
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601833
ALS Sample ID: P1601833-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00543

Date Collected: 4/5/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.74 Final Pressure (psig): 3.78

Canister Dilution Factor: 2.32

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result **µg/m³**	Duplicate Sample Result **ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
n-Nonane	0.438	0.0836	0.385	0.0734	0.4115	**13**	25	**J**
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	1.16	0.207	1.17	0.211	1.165	**0.9**	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	9.28	1.67	9.31	1.67	9.295	**0.3**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

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LABORATORY REPORT

April 18, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601844.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 4:05 pm, Apr 18, 2016

For Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601844
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Five of the containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601844
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 16:20

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
	P1601844-001	Air	4/6/2016	08:30	CC00206	-4.50	3.55	-0.04	3.14	X
	P1601844-002	Air	4/6/2016	09:45	CC00205	-5.07	3.73			X
	P1601844-003	Air	4/6/2016	09:40	CC00199	-5.21	3.74			X
	P1601844-004	Air	4/6/2016	10:37	AS00499	-6.42	3.73			X
	P1601844-005	Air	4/6/2016	13:11	CC00198	-5.56	3.80			X
	P1601844-006	Air	4/6/2016	13:08	CC00207	-5.71	3.61			X
	P1601844-007	Air	4/6/2016	14:21	AS00888	-3.76	3.67			X

P1601844

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AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/6/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg / Joel Berman

Rotameter: n/a **Serial # :** n/a **Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – SU 77-SU19 SU~~ 1	Summa Restek 1416	TO-15 0.10 ug/m³ 75	-28.8	-12.5	0838	0830	1,432		Dining table, ~3.5ft tall SE corner of home
			Avg:						
100-SU 2	Restek 1362		-26.3	-11.0	0945	0945	1,440		~~Entry foyer~~ w. 4/6/16. Table 3.5ft tall. NE side of house. Dining Rm table
			Avg:						
100-SU-EXT 3	Restek 5957		-29.3	-12.5	0955	0940	1,425		Backyard under pergola. Table 3.5ft tall. S. of house
			Avg:						
179-SU 4	Silonite 14619		-29	-13.9	1107	1037	1,407		Living Room by entrance. Sofa table. 2ft tall
			Avg:						
123-SU 5	Restek 3136	↓	-28	-10.7	1348	1311	1403		Kitchen table. ~3.5ft tall East side of house
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	**Date:** 4/7/16	**Time:** 1530	**Received by:**		**Date:** 4/7/16	**Time:** 346
Relinquished by:	**Date:** 4/7/16	**Time:** 347	**Received by:**		**Date:** 4/7/16	**Time:** 1547
Relinquished by:	**Date:** 4/7/16	**Time:** 1620	**Received by:**		**Dated** 7/16	**Time:** 1621

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P168164

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/6/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Joel Berman	
	Rotameter: n/a	Serial # : n/a	Expiration Date: n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19 SU1/23 SU2)	Summa Restek 1459	TO-15 0.10 ug/m³ 75	4/6/16 134	-11.8	1348	1308	1,400		Kitchen table, ~3.5 ft tall. East side of home.
			-19.5 Avg:	4-7-16 ea					
10 SU	Silonite 19143	↓	-28.5	~~-7.8~~	1424	1421	1,437		Living Rm. Fold up table. 3ft tall. SE area of home
			Avg:	-7.9					
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Camilla Westberg	Date: 4/7/16	Time: 1530	Received by: [signature]	Date: 4/7/16	Time: 348		
Relinquished by: [signature]	Date: 4/7/16	Time: 349	Received by: [signature]	Date: 4/7/16	Time: 1549		
Relinquished by: [signature]	Date: 4/7/16	Time: 1620	Received by: [signature]	Date: 4/7/16	Time: 1620		

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601844

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601844-001.01	Canister					
P1601844-002.01	Canister					
P1601844-003.01	Canister					
P1601844-004.01	6.0 L Silonite Can					
P1601844-005.01	Canister					
P1601844-006.01	Canister					
P1601844-007.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:
Container ID: CC00206

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/15/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.50 Final Pressure (psig): 3.55
Initial Pressure 2 (psig): -0.04 Final Pressure 2 (psig): 3.14

Canister Dilution Factor: 2.18

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**27**	1.1	0.31	**16**	0.63	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**4.7**	1.1	0.37	**0.95**	0.22	0.075	
74-87-3	Chloromethane	**0.80**	0.44	0.31	**0.39**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.16	0.059	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.085	0.081	
106-99-0	1,3-Butadiene	ND	0.44	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.44	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.44	0.19	ND	0.17	0.072	
64-17-5	Ethanol	**120**	11	1.7	**63**	5.8	0.93	
75-05-8	Acetonitrile	**2.4**	1.1	0.39	**1.4**	0.65	0.23	
107-02-8	Acrolein	**55**	4.4	0.37	**24**	1.9	0.16	
67-64-1	Acetone	**460**	11	1.7	**190**	4.6	0.71	
75-69-4	Trichlorofluoromethane	**1.4**	0.22	0.12	**0.24**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**20**	11	0.92	**8.2**	4.4	0.37	
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
75-09-2	Methylene Chloride	**58**	1.1	0.37	**17**	0.31	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.070	0.053	
76-13-1	Trichlorotrifluoroethane	**0.53**	0.22	0.17	**0.070**	0.028	0.023	
75-15-0	Carbon Disulfide	**16**	11	0.33	**5.0**	3.5	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.050	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.054	0.043	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.056	
108-05-4	Vinyl Acetate	**53**	11	1.4	**15**	3.1	0.40	
78-93-3	2-Butanone (MEK)	**80**	11	0.46	**27**	3.7	0.16	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00206

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/15/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.50 Final Pressure (psig): 3.55

Initial Pressure 2 (psig): -0.04 Final Pressure 2 (psig): 3.14

Canister Dilution Factor: 2.18

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.055	0.051	
141-78-6	Ethyl Acetate	**8.3**	2.2	0.76	**2.3**	0.61	0.21	
110-54-3	n-Hexane	**1.5**	1.1	0.33	**0.42**	0.31	0.093	
67-66-3	Chloroform	**0.20**	0.22	0.19	**0.042**	0.045	0.040	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.44	ND	0.37	0.15	
107-06-2	1,2-Dichloroethane	**1.3**	0.22	0.14	**0.32**	0.054	0.033	
71-55-6	1,1,1-Trichloroethane	**0.30**	0.22	0.16	**0.055**	0.040	0.030	
71-43-2	Benzene	**0.50**	0.22	0.17	**0.16**	0.068	0.054	
56-23-5	Carbon Tetrachloride	**0.53**	0.22	0.19	**0.085**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.63	ND	0.63	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.041	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.30	0.097	
80-62-6	Methyl Methacrylate	ND	2.2	0.68	ND	0.53	0.17	
142-82-5	n-Heptane	**0.66**	1.1	0.37	**0.16**	0.27	0.090	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.067	
108-10-1	4-Methyl-2-pentanone	**1.6**	1.1	0.35	**0.39**	0.27	0.085	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.077	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.040	0.032	
108-88-3	Toluene	**23**	1.1	0.37	**6.1**	0.29	0.098	
591-78-6	2-Hexanone	ND	1.1	0.35	ND	0.27	0.085	
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	**1.3**	1.1	0.35	**0.27**	0.23	0.073	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Container ID: CC00206

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/15/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.50 Final Pressure (psig): 3.55

Initial Pressure 2 (psig): -0.04 Final Pressure 2 (psig): 3.14

Canister Dilution Factor: 2.18

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.99**	1.1	0.39	**0.21**	0.23	0.084	**J**
127-18-4	Tetrachloroethene	**0.53**	0.22	0.16	**0.078**	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	**0.64**	1.1	0.35	**0.15**	0.25	0.080	**J**
179601-23-1	m,p-Xylenes	**1.7**	1.1	0.63	**0.39**	0.25	0.15	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	**1.5**	1.1	0.33	**0.36**	0.26	0.077	
95-47-6	o-Xylene	**0.47**	1.1	0.33	**0.11**	0.25	0.075	**J**
111-84-2	n-Nonane	**0.77**	1.1	0.33	**0.15**	0.21	0.062	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.032	0.027	
98-82-8	Cumene	ND	1.1	0.33	ND	0.22	0.067	
80-56-8	alpha-Pinene	**3.5**	1.1	0.31	**0.62**	0.20	0.055	
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.071	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.071	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.071	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	0.33	ND	0.22	0.067	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.027	
106-46-7	1,4-Dichlorobenzene	**2.4**	0.22	0.17	**0.40**	0.036	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.034	
5989-27-5	d-Limonene	**13**	1.1	0.31	**2.3**	0.20	0.055	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.047	
91-20-3	Naphthalene	ND	1.1	0.39	ND	0.21	0.075	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-001

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes: **T**

Container ID: CC00206

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/15/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.50 Final Pressure (psig): 3.55

Initial Pressure 2 (psig): -0.04 Final Pressure 2 (psig): 3.14

Canister Dilution Factor: 2.18

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.40	Acetaldehyde	**23**	
4.51	Methyl Alcohol	**29**	
7.35	unknown	**26**	
8.13	n-Butanal	**25**	
11.75	2,4,4-Trimethyl-1-pentene	**9.5**	
13.10	2-Methylpropanoic Acid	**560**	
13.31	Butanoic acid	**22**	
17.67	Diisopropyldisulfide	**24**	
18.30	alpha-Cumyl Alcohol	**110**	
18.85	2-(Isopropyldisulfanyl)butane	**49**	
19.80	sec-Butyl Disulfide	**24**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00205

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.07 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.3**	0.96	0.27	**1.3**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	0.96	0.32	**0.47**	0.19	0.066	
74-87-3	Chloromethane	**0.65**	0.38	0.27	**0.32**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	0.36	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.075	0.071	
106-99-0	1,3-Butadiene	ND	0.38	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.18	ND	0.098	0.046	
75-00-3	Chloroethane	ND	0.38	0.17	ND	0.14	0.063	
64-17-5	Ethanol	**54**	9.6	1.5	**29**	5.1	0.81	
75-05-8	Acetonitrile	**1.0**	0.96	0.34	**0.62**	0.57	0.20	
107-02-8	Acrolein	**3.6**	3.8	0.32	**1.6**	1.7	0.14	**J**
67-64-1	Acetone	**33**	9.6	1.5	**14**	4.0	0.62	
75-69-4	Trichlorofluoromethane	**1.3**	0.19	0.11	**0.22**	0.034	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.0**	9.6	0.80	**1.6**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.96	0.32	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
75-09-2	Methylene Chloride	**82**	0.96	0.32	**24**	0.28	0.094	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.061	0.046	
76-13-1	Trichlorotrifluoroethane	**0.65**	0.19	0.15	**0.084**	0.025	0.020	
75-15-0	Carbon Disulfide	**0.96**	9.6	0.29	**0.31**	3.1	0.092	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.047	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.053	0.049	
108-05-4	Vinyl Acetate	**3.7**	9.6	1.2	**1.0**	2.7	0.35	**J**
78-93-3	2-Butanone (MEK)	**3.5**	9.6	0.40	**1.2**	3.2	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00205

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.07 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.048	0.044	
141-78-6	Ethyl Acetate	**4.2**	1.9	0.67	**1.2**	0.53	0.19	
110-54-3	n-Hexane	**1.6**	0.96	0.29	**0.45**	0.27	0.081	
67-66-3	Chloroform	**0.45**	0.19	0.17	**0.092**	0.039	0.035	
109-99-9	Tetrahydrofuran (THF)	**1.3**	0.96	0.38	**0.43**	0.32	0.13	
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.047	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**0.92**	0.19	0.15	**0.29**	0.060	0.047	
56-23-5	Carbon Tetrachloride	**0.58**	0.19	0.16	**0.092**	0.030	0.026	
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.041	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.019	
79-01-6	Trichloroethene	**0.27**	0.19	0.17	**0.051**	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.96	0.31	ND	0.27	0.085	
80-62-6	Methyl Methacrylate	ND	1.9	0.59	ND	0.47	0.14	
142-82-5	n-Heptane	**0.65**	0.96	0.32	**0.16**	0.23	0.079	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.27	ND	0.21	0.059	
108-10-1	4-Methyl-2-pentanone	**0.85**	0.96	0.31	**0.21**	0.23	0.075	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.31	ND	0.21	0.067	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**9.9**	0.96	0.32	**2.6**	0.25	0.086	
591-78-6	2-Hexanone	ND	0.96	0.31	ND	0.23	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.86**	0.96	0.31	**0.18**	0.20	0.064	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00205

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.07 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.96	0.34	ND	0.20	0.074	
127-18-4	Tetrachloroethene	**0.15**	0.19	0.14	**0.023**	0.028	0.020	**J**
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.041	0.034	
100-41-4	Ethylbenzene	**2.5**	0.96	0.31	**0.58**	0.22	0.070	
179601-23-1	m,p-Xylenes	**7.9**	0.96	0.55	**1.8**	0.22	0.13	
75-25-2	Bromoform	ND	0.96	0.29	ND	0.092	0.028	
100-42-5	Styrene	**0.47**	0.96	0.29	**0.11**	0.22	0.067	**J**
95-47-6	o-Xylene	**2.2**	0.96	0.29	**0.50**	0.22	0.066	
111-84-2	n-Nonane	**0.50**	0.96	0.29	**0.095**	0.18	0.055	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.023	
98-82-8	Cumene	**11**	0.96	0.29	**2.2**	0.19	0.058	
80-56-8	alpha-Pinene	**6.2**	0.96	0.27	**1.1**	0.17	0.048	
103-65-1	n-Propylbenzene	ND	0.96	0.31	ND	0.19	0.062	
622-96-8	4-Ethyltoluene	ND	0.96	0.31	ND	0.19	0.062	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	0.31	ND	0.19	0.062	
95-63-6	1,2,4-Trimethylbenzene	**0.64**	0.96	0.29	**0.13**	0.19	0.058	**J**
100-44-7	Benzyl Chloride	ND	0.96	0.21	ND	0.18	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	**0.29**	0.19	0.15	**0.048**	0.032	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**12**	0.96	0.27	**2.1**	0.17	0.048	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.96	0.19	ND	0.099	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	0.31	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.96	0.34	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.96	0.27	ND	0.090	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-002

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes: **T**

Container ID: CC00205

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.07 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.14	Isobutane	**30**	
4.29	Methyl Alcohol	**23**	
6.62	Methyl Acetate	**330**	
17.92	alpha-Methylstyrene	**100**	
19.00	Acetophenone	**49**	
19.30	alpha-Cumyl Alcohol	**94**	
20.25	Decamethylcyclopentasiloxane	**87**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00199

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.3**	0.97	0.27	**0.74**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.97	0.33	**0.38**	0.20	0.067	
74-87-3	Chloromethane	**0.58**	0.39	0.27	**0.28**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.97	0.37	ND	0.14	0.053	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.076	0.072	
106-99-0	1,3-Butadiene	ND	0.39	0.27	ND	0.18	0.12	
74-83-9	Bromomethane	ND	0.39	0.18	ND	0.10	0.046	
75-00-3	Chloroethane	ND	0.39	0.17	ND	0.15	0.064	
64-17-5	Ethanol	**17**	9.7	1.6	**8.9**	5.2	0.82	
75-05-8	Acetonitrile	**0.50**	0.97	0.35	**0.30**	0.58	0.21	**J**
107-02-8	Acrolein	**2.1**	3.9	0.33	**0.92**	1.7	0.14	**J**
67-64-1	Acetone	**19**	9.7	1.5	**8.0**	4.1	0.63	
75-69-4	Trichlorofluoromethane	**1.0**	0.19	0.11	**0.18**	0.035	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.6**	9.7	0.81	**1.1**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.97	0.33	ND	0.45	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.049	0.046	
75-09-2	Methylene Chloride	**7.1**	0.97	0.33	**2.0**	0.28	0.095	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.062	0.047	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.19	0.16	**0.063**	0.025	0.020	
75-15-0	Carbon Disulfide	**1.8**	9.7	0.29	**0.59**	3.1	0.093	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.048	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.054	0.050	
108-05-4	Vinyl Acetate	**2.7**	9.7	1.3	**0.78**	2.8	0.36	**J**
78-93-3	2-Butanone (MEK)	**1.8**	9.7	0.41	**0.62**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00199

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.049	0.045	
141-78-6	Ethyl Acetate	**15**	1.9	0.68	**4.3**	0.54	0.19	
110-54-3	n-Hexane	**0.77**	0.97	0.29	**0.22**	0.28	0.083	**J**
67-66-3	Chloroform	**0.51**	0.19	0.17	**0.10**	0.040	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.97	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.048	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.036	0.026	
71-43-2	Benzene	**0.77**	0.19	0.15	**0.24**	0.061	0.048	
56-23-5	Carbon Tetrachloride	**0.45**	0.19	0.17	**0.072**	0.031	0.027	
110-82-7	Cyclohexane	**0.57**	1.9	0.56	**0.16**	0.56	0.16	**J**
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.042	0.035	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.020	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.97	0.31	ND	0.27	0.086	
80-62-6	Methyl Methacrylate	ND	1.9	0.60	ND	0.47	0.15	
142-82-5	n-Heptane	**0.45**	0.97	0.33	**0.11**	0.24	0.081	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.97	0.31	ND	0.24	0.076	
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.16	ND	0.036	0.028	
108-88-3	Toluene	**3.8**	0.97	0.33	**1.0**	0.26	0.088	
591-78-6	2-Hexanone	ND	0.97	0.31	ND	0.24	0.076	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.39**	0.97	0.31	**0.082**	0.20	0.065	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00199

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.97	0.35	ND	0.21	0.075	
127-18-4	Tetrachloroethene	ND	0.19	0.14	ND	0.029	0.021	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	**0.39**	0.97	0.31	**0.090**	0.22	0.071	**J**
179601-23-1	m,p-Xylenes	**1.2**	0.97	0.56	**0.28**	0.22	0.13	
75-25-2	Bromoform	ND	0.97	0.29	ND	0.094	0.028	
100-42-5	Styrene	**0.39**	0.97	0.29	**0.093**	0.23	0.068	**J**
95-47-6	o-Xylene	**1.8**	0.97	0.29	**0.42**	0.22	0.067	
111-84-2	n-Nonane	ND	0.97	0.29	ND	0.18	0.055	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.024	
98-82-8	Cumene	ND	0.97	0.29	ND	0.20	0.059	
80-56-8	alpha-Pinene	**0.42**	0.97	0.27	**0.075**	0.17	0.049	**J**
103-65-1	n-Propylbenzene	ND	0.97	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.97	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.97	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	**0.66**	0.97	0.29	**0.14**	0.20	0.059	**J**
100-44-7	Benzyl Chloride	ND	0.97	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	**0.16**	0.19	0.15	**0.026**	0.032	0.025	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**0.48**	0.97	0.27	**0.086**	0.17	0.049	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.97	0.19	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.97	0.35	ND	0.19	0.067	
87-68-3	Hexachlorobutadiene	ND	0.97	0.27	ND	0.091	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	4/7/16
Analyst:	Simon Cao	Date Analyzed:	4/9/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00199		

Initial Pressure (psig): -5.21 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.94

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.74	Sulfur Dioxide	**>52**	**!**

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00499

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.23

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**9.0**	1.1	0.31	**5.2**	0.65	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.38	**0.38**	0.23	0.077	
74-87-3	Chloromethane	**0.48**	0.45	0.31	**0.23**	0.22	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.061	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.087	0.083	
106-99-0	1,3-Butadiene	ND	0.45	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.45	0.21	ND	0.11	0.053	
75-00-3	Chloroethane	ND	0.45	0.19	ND	0.17	0.074	
64-17-5	Ethanol	**360**	11	1.8	**190**	5.9	0.95	
75-05-8	Acetonitrile	ND	1.1	0.40	ND	0.66	0.24	
107-02-8	Acrolein	**2.8**	4.5	0.38	**1.2**	1.9	0.17	**J**
67-64-1	Acetone	**28**	11	1.7	**12**	4.7	0.72	
75-69-4	Trichlorofluoromethane	**1.2**	0.22	0.13	**0.21**	0.040	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**21**	11	0.94	**8.7**	4.5	0.38	
107-13-1	Acrylonitrile	ND	1.1	0.38	ND	0.51	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.21	ND	0.056	0.052	
75-09-2	Methylene Chloride	**160**	1.1	0.38	**46**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.071	0.054	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.22	0.18	**0.064**	0.029	0.023	
75-15-0	Carbon Disulfide	ND	11	0.33	ND	3.6	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.051	
75-34-3	1,1-Dichloroethane	ND	0.22	0.18	ND	0.055	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.21	ND	0.062	0.058	
108-05-4	Vinyl Acetate	**1.8**	11	1.4	**0.52**	3.2	0.41	**J**
78-93-3	2-Butanone (MEK)	**1.8**	11	0.47	**0.62**	3.8	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00499

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.23

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.21	ND	0.056	0.052	
141-78-6	Ethyl Acetate	**17**	2.2	0.78	**4.8**	0.62	0.22	
110-54-3	n-Hexane	**0.54**	1.1	0.33	**0.15**	0.32	0.095	**J**
67-66-3	Chloroform	**0.64**	0.22	0.20	**0.13**	0.046	0.041	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.45	ND	0.38	0.15	
107-06-2	1,2-Dichloroethane	ND	0.22	0.14	ND	0.055	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.17	ND	0.041	0.030	
71-43-2	Benzene	**0.66**	0.22	0.18	**0.21**	0.070	0.055	
56-23-5	Carbon Tetrachloride	**0.43**	0.22	0.19	**0.068**	0.035	0.031	
110-82-7	Cyclohexane	ND	2.2	0.65	ND	0.65	0.19	
78-87-5	1,2-Dichloropropane	ND	0.22	0.19	ND	0.048	0.040	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.023	
79-01-6	Trichloroethene	ND	0.22	0.20	ND	0.042	0.037	
123-91-1	1,4-Dioxane	ND	1.1	0.36	ND	0.31	0.099	
80-62-6	Methyl Methacrylate	ND	2.2	0.69	ND	0.54	0.17	
142-82-5	n-Heptane	**0.47**	1.1	0.38	**0.12**	0.27	0.093	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.25	0.069	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.36	ND	0.27	0.087	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.36	ND	0.25	0.079	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.041	0.033	
108-88-3	Toluene	**3.2**	1.1	0.38	**0.86**	0.30	0.10	
591-78-6	2-Hexanone	ND	1.1	0.36	ND	0.27	0.087	
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.025	
123-86-4	n-Butyl Acetate	**2.5**	1.1	0.36	**0.53**	0.23	0.075	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00499

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.23

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.40	ND	0.24	0.086	
127-18-4	Tetrachloroethene	**0.27**	0.22	0.16	**0.040**	0.033	0.024	
108-90-7	Chlorobenzene	ND	0.22	0.19	ND	0.048	0.040	
100-41-4	Ethylbenzene	**0.48**	1.1	0.36	**0.11**	0.26	0.082	**J**
179601-23-1	m,p-Xylenes	**1.6**	1.1	0.65	**0.36**	0.26	0.15	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	**0.37**	1.1	0.33	**0.088**	0.26	0.079	**J**
95-47-6	o-Xylene	**0.49**	1.1	0.33	**0.11**	0.26	0.077	**J**
111-84-2	n-Nonane	ND	1.1	0.33	ND	0.21	0.064	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.19	ND	0.032	0.027	
98-82-8	Cumene	ND	1.1	0.33	ND	0.23	0.068	
80-56-8	alpha-Pinene	**1.6**	1.1	0.31	**0.29**	0.20	0.056	
103-65-1	n-Propylbenzene	ND	1.1	0.36	ND	0.23	0.073	
622-96-8	4-Ethyltoluene	ND	1.1	0.36	ND	0.23	0.073	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.36	ND	0.23	0.073	
95-63-6	1,2,4-Trimethylbenzene	**0.34**	1.1	0.33	**0.069**	0.23	0.068	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.17	ND	0.037	0.027	
106-46-7	1,4-Dichlorobenzene	**3.3**	0.22	0.17	**0.55**	0.037	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.21	ND	0.037	0.035	
5989-27-5	d-Limonene	**14**	1.1	0.31	**2.6**	0.20	0.056	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.36	ND	0.15	0.048	
91-20-3	Naphthalene	ND	1.1	0.40	ND	0.21	0.077	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	4/7/16
Analyst:	Simon Cao	Date Analyzed:	4/9/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00499		

Initial Pressure (psig): -6.42 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.23

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.14	Isobutane	**37**	
14.88	Hexamethylcyclotrisiloxane	**36**	
20.25	Decamethylcyclopentasiloxane	**28**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00198

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**23**	1.0	0.28	**14**	0.59	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**5.5**	1.0	0.34	**1.1**	0.20	0.069	
74-87-3	Chloromethane	**0.63**	0.40	0.28	**0.31**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.079	0.075	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.18	ND	0.15	0.067	
64-17-5	Ethanol	**280**	10	1.6	**150**	5.4	0.86	
75-05-8	Acetonitrile	**0.37**	1.0	0.36	**0.22**	0.60	0.22	**J**
107-02-8	Acrolein	**6.8**	4.0	0.34	**3.0**	1.8	0.15	
67-64-1	Acetone	**54**	10	1.6	**23**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**2.9**	0.20	0.12	**0.51**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**66**	10	0.85	**27**	4.1	0.35	
107-13-1	Acrylonitrile	ND	1.0	0.34	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-09-2	Methylene Chloride	**180**	1.0	0.34	**53**	0.29	0.099	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.065	0.049	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.20	0.16	**0.066**	0.026	0.021	
75-15-0	Carbon Disulfide	**4.9**	10	0.30	**1.6**	3.2	0.097	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.056	0.052	
108-05-4	Vinyl Acetate	**3.6**	10	1.3	**1.0**	2.9	0.37	**J**
78-93-3	2-Butanone (MEK)	**4.1**	10	0.42	**1.4**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00198

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**3.4**	2.0	0.71	**0.94**	0.56	0.20	
110-54-3	n-Hexane	**0.73**	1.0	0.30	**0.21**	0.29	0.086	**J**
67-66-3	Chloroform	**0.45**	0.20	0.18	**0.092**	0.041	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	**2.2**	0.20	0.13	**0.54**	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	**0.24**	0.20	0.15	**0.044**	0.037	0.027	
71-43-2	Benzene	**0.75**	0.20	0.16	**0.23**	0.063	0.050	
56-23-5	Carbon Tetrachloride	**0.54**	0.20	0.17	**0.086**	0.032	0.028	
110-82-7	Cyclohexane	ND	2.0	0.59	ND	0.59	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.036	
75-27-4	Bromodichloromethane	**0.21**	0.20	0.14	**0.031**	0.030	0.021	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.038	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.090	
80-62-6	Methyl Methacrylate	ND	2.0	0.63	ND	0.49	0.15	
142-82-5	n-Heptane	**5.5**	1.0	0.34	**1.3**	0.25	0.084	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	**1.6**	1.0	0.32	**0.38**	0.25	0.079	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.030	
108-88-3	Toluene	**4.9**	1.0	0.34	**1.3**	0.27	0.091	
591-78-6	2-Hexanone	**0.63**	1.0	0.32	**0.15**	0.25	0.079	**J**
124-48-1	Dibromochloromethane	**0.20**	0.20	0.17	**0.023**	0.024	0.020	**J**
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**1.5**	1.0	0.32	**0.32**	0.21	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00198

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.46**	1.0	0.36	**0.099**	0.22	0.078	**J**
127-18-4	Tetrachloroethene	ND	0.20	0.15	ND	0.030	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.036	
100-41-4	Ethylbenzene	**0.70**	1.0	0.32	**0.16**	0.23	0.074	**J**
179601-23-1	m,p-Xylenes	**2.2**	1.0	0.59	**0.51**	0.23	0.13	
75-25-2	Bromoform	ND	1.0	0.30	ND	0.098	0.029	
100-42-5	Styrene	**1.9**	1.0	0.30	**0.44**	0.24	0.071	
95-47-6	o-Xylene	**2.5**	1.0	0.30	**0.58**	0.23	0.070	
111-84-2	n-Nonane	**1.7**	1.0	0.30	**0.33**	0.19	0.058	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.025	
98-82-8	Cumene	**0.35**	1.0	0.30	**0.072**	0.21	0.062	**J**
80-56-8	alpha-Pinene	**98**	1.0	0.28	**18**	0.18	0.051	
103-65-1	n-Propylbenzene	ND	1.0	0.32	ND	0.21	0.066	
622-96-8	4-Ethyltoluene	ND	1.0	0.32	ND	0.21	0.066	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.32	ND	0.21	0.066	
95-63-6	1,2,4-Trimethylbenzene	**0.68**	1.0	0.30	**0.14**	0.21	0.062	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.20	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	**3.0**	0.20	0.15	**0.50**	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.034	0.031	
5989-27-5	d-Limonene	**14**	1.0	0.28	**2.4**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.36	ND	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.095	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-005

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes: **T**

Container ID: CC00198

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.56 Final Pressure (psig): 3.80

Canister Dilution Factor: 2.02

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.15	Isobutane	**270**	
4.30	Methyl Alcohol	**38**	
12.68	Dimethyl disulfide	**29**	
18.58	3-Carene	**32**	
19.00	Acetophenone	**61**	
19.31	alpha-Cumyl Alcohol	**350**	
20.25	Decamethylcyclopentasiloxane	**44**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00207

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.61

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**21**	1.0	0.29	**12**	0.59	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**5.4**	1.0	0.35	**1.1**	0.21	0.070	
74-87-3	Chloromethane	**0.60**	0.41	0.29	**0.29**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.080	0.076	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.15	0.067	
64-17-5	Ethanol	**270**	10	1.6	**140**	5.4	0.87	
75-05-8	Acetonitrile	ND	1.0	0.37	ND	0.61	0.22	
107-02-8	Acrolein	**5.7**	4.1	0.35	**2.5**	1.8	0.15	
67-64-1	Acetone	**53**	10	1.6	**22**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**2.9**	0.20	0.12	**0.51**	0.036	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**64**	10	0.86	**26**	4.2	0.35	
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.048	
75-09-2	Methylene Chloride	**180**	1.0	0.35	**51**	0.29	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.16	ND	0.065	0.050	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.20	0.16	**0.068**	0.027	0.021	
75-15-0	Carbon Disulfide	**1.5**	10	0.31	**0.48**	3.3	0.098	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**5.5**	10	1.3	**1.6**	2.9	0.38	**J**
78-93-3	2-Butanone (MEK)	**4.2**	10	0.43	**1.4**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00207

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.61

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**3.4**	2.0	0.71	**0.93**	0.57	0.20	
110-54-3	n-Hexane	**0.73**	1.0	0.31	**0.21**	0.29	0.087	**J**
67-66-3	Chloroform	**0.45**	0.20	0.18	**0.093**	0.042	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	**2.1**	0.20	0.13	**0.52**	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	**0.23**	0.20	0.15	**0.043**	0.037	0.028	
71-43-2	Benzene	**0.71**	0.20	0.16	**0.22**	0.064	0.050	
56-23-5	Carbon Tetrachloride	**0.53**	0.20	0.18	**0.084**	0.032	0.028	
110-82-7	Cyclohexane	ND	2.0	0.59	ND	0.59	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.037	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.021	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.28	0.091	
80-62-6	Methyl Methacrylate	ND	2.0	0.63	ND	0.50	0.15	
142-82-5	n-Heptane	**5.2**	1.0	0.35	**1.3**	0.25	0.085	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.22	0.063	
108-10-1	4-Methyl-2-pentanone	**1.4**	1.0	0.33	**0.34**	0.25	0.080	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.22	0.072	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.030	
108-88-3	Toluene	**5.1**	1.0	0.35	**1.3**	0.27	0.092	
591-78-6	2-Hexanone	**0.57**	1.0	0.33	**0.14**	0.25	0.080	**J**
124-48-1	Dibromochloromethane	**0.19**	0.20	0.17	**0.023**	0.024	0.020	**J**
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**1.4**	1.0	0.33	**0.29**	0.21	0.069	

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00207

Date Collected: 4/6/16

Date Received: 4/7/16

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.61

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.44**	1.0	0.37	**0.095**	0.22	0.079	**J**
127-18-4	Tetrachloroethene	ND	0.20	0.15	ND	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.037	
100-41-4	Ethylbenzene	**0.69**	1.0	0.33	**0.16**	0.23	0.075	**J**
179601-23-1	m,p-Xylenes	**2.2**	1.0	0.59	**0.50**	0.23	0.14	
75-25-2	Bromoform	ND	1.0	0.31	ND	0.099	0.030	
100-42-5	Styrene	**1.9**	1.0	0.31	**0.44**	0.24	0.072	
95-47-6	o-Xylene	**0.82**	1.0	0.31	**0.19**	0.23	0.070	**J**
111-84-2	n-Nonane	**1.6**	1.0	0.31	**0.30**	0.19	0.058	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.030	0.025	
98-82-8	Cumene	**1.2**	1.0	0.31	**0.24**	0.21	0.062	
80-56-8	alpha-Pinene	**98**	1.0	0.29	**18**	0.18	0.051	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.066	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.066	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.066	
95-63-6	1,2,4-Trimethylbenzene	**0.61**	1.0	0.31	**0.12**	0.21	0.062	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.20	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	**3.1**	0.20	0.16	**0.52**	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**13**	1.0	0.29	**2.4**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.19	0.070	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.096	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-006

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	4/7/16
Analyst:	Simon Cao	Date Analyzed:	4/9/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00207		

Initial Pressure (psig): -5.71 Final Pressure (psig): 3.61

Canister Dilution Factor: 2.04

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.15	Isobutane	**270**	
4.30	Methyl Alcohol	**37**	
18.58	3-Carene	**31**	
19.30	alpha-Cumyl Alcohol	**140**	
20.25	Decamethylcyclopentasiloxane	**42**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00888

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.68

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.7**	0.84	0.24	**2.7**	0.49	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.84	0.29	**0.38**	0.17	0.058	
74-87-3	Chloromethane	**0.59**	0.34	0.24	**0.28**	0.16	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	0.32	ND	0.12	0.046	
75-01-4	Vinyl Chloride	ND	0.17	0.16	ND	0.066	0.062	
106-99-0	1,3-Butadiene	ND	0.34	0.24	ND	0.15	0.11	
74-83-9	Bromomethane	ND	0.34	0.16	ND	0.087	0.040	
75-00-3	Chloroethane	ND	0.34	0.15	ND	0.13	0.055	
64-17-5	Ethanol	**350**	8.4	1.3	**190**	4.5	0.71	
75-05-8	Acetonitrile	**0.52**	0.84	0.30	**0.31**	0.50	0.18	**J**
107-02-8	Acrolein	**2.3**	3.4	0.29	**0.99**	1.5	0.12	**J**
67-64-1	Acetone	**30**	8.4	1.3	**12**	3.5	0.54	
75-69-4	Trichlorofluoromethane	**1.2**	0.17	0.096	**0.21**	0.030	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	**9.1**	8.4	0.71	**3.7**	3.4	0.29	
107-13-1	Acrylonitrile	**0.78**	0.84	0.29	**0.36**	0.39	0.13	**J**
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.042	0.039	
75-09-2	Methylene Chloride	**76**	0.84	0.29	**22**	0.24	0.082	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.054	0.041	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.17	0.13	**0.067**	0.022	0.018	
75-15-0	Carbon Disulfide	ND	8.4	0.25	ND	2.7	0.081	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.15	ND	0.042	0.039	
75-34-3	1,1-Dichloroethane	ND	0.17	0.13	ND	0.042	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.047	0.043	
108-05-4	Vinyl Acetate	**2.6**	8.4	1.1	**0.74**	2.4	0.31	**J**
78-93-3	2-Butanone (MEK)	**3.3**	8.4	0.35	**1.1**	2.8	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00888

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.68

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.15	ND	0.042	0.039	
141-78-6	Ethyl Acetate	**20**	1.7	0.59	**5.4**	0.47	0.16	
110-54-3	n-Hexane	**0.89**	0.84	0.25	**0.25**	0.24	0.072	
67-66-3	Chloroform	**0.61**	0.17	0.15	**0.13**	0.034	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.84	0.34	ND	0.28	0.11	
107-06-2	1,2-Dichloroethane	**0.18**	0.17	0.10	**0.045**	0.042	0.026	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.12	ND	0.031	0.023	
71-43-2	Benzene	**1.1**	0.17	0.13	**0.35**	0.053	0.042	
56-23-5	Carbon Tetrachloride	**0.52**	0.17	0.14	**0.082**	0.027	0.023	
110-82-7	Cyclohexane	ND	1.7	0.49	ND	0.49	0.14	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.036	0.030	
75-27-4	Bromodichloromethane	**0.19**	0.17	0.11	**0.028**	0.025	0.017	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.031	0.028	
123-91-1	1,4-Dioxane	ND	0.84	0.27	ND	0.23	0.075	
80-62-6	Methyl Methacrylate	ND	1.7	0.52	ND	0.41	0.13	
142-82-5	n-Heptane	**0.70**	0.84	0.29	**0.17**	0.21	0.070	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.24	ND	0.19	0.052	
108-10-1	4-Methyl-2-pentanone	**0.59**	0.84	0.27	**0.14**	0.21	0.066	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.27	ND	0.19	0.059	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.13	ND	0.031	0.025	
108-88-3	Toluene	**5.3**	0.84	0.29	**1.4**	0.22	0.076	
591-78-6	2-Hexanone	**0.37**	0.84	0.27	**0.091**	0.21	0.066	**J**
124-48-1	Dibromochloromethane	**0.20**	0.17	0.14	**0.023**	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.14	ND	0.022	0.019	
123-86-4	n-Butyl Acetate	**1.3**	0.84	0.27	**0.28**	0.18	0.057	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P1601844-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00888

Date Collected: 4/6/16
Date Received: 4/7/16
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.68

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.56**	0.84	0.30	**0.12**	0.18	0.065	**J**
127-18-4	Tetrachloroethene	**0.53**	0.17	0.12	**0.078**	0.025	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.036	0.030	
100-41-4	Ethylbenzene	**1.2**	0.84	0.27	**0.28**	0.19	0.062	
179601-23-1	m,p-Xylenes	**5.1**	0.84	0.49	**1.2**	0.19	0.11	
75-25-2	Bromoform	ND	0.84	0.25	ND	0.081	0.024	
100-42-5	Styrene	**0.57**	0.84	0.25	**0.14**	0.20	0.059	**J**
95-47-6	o-Xylene	**2.5**	0.84	0.25	**0.57**	0.19	0.058	
111-84-2	n-Nonane	**5.9**	0.84	0.25	**1.1**	0.16	0.048	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.14	ND	0.024	0.021	
98-82-8	Cumene	ND	0.84	0.25	ND	0.17	0.051	
80-56-8	alpha-Pinene	**2.0**	0.84	0.24	**0.36**	0.15	0.042	
103-65-1	n-Propylbenzene	ND	0.84	0.27	ND	0.17	0.055	
622-96-8	4-Ethyltoluene	ND	0.84	0.27	ND	0.17	0.055	
108-67-8	1,3,5-Trimethylbenzene	ND	0.84	0.27	ND	0.17	0.055	
95-63-6	1,2,4-Trimethylbenzene	**0.79**	0.84	0.25	**0.16**	0.17	0.051	**J**
100-44-7	Benzyl Chloride	ND	0.84	0.18	ND	0.16	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.12	ND	0.028	0.021	
106-46-7	1,4-Dichlorobenzene	**0.15**	0.17	0.13	**0.025**	0.028	0.021	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.028	0.026	
5989-27-5	d-Limonene	**11**	0.84	0.24	**2.0**	0.15	0.042	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	0.17	ND	0.087	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.84	0.27	ND	0.11	0.036	
91-20-3	Naphthalene	**1.3**	0.84	0.30	**0.25**	0.16	0.058	
87-68-3	Hexachlorobutadiene	ND	0.84	0.24	ND	0.079	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P1601844-007

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	4/7/16
Analyst:	Simon Cao	Date Analyzed:	4/9/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00888		

Initial Pressure (psig): -3.76 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.68

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.14	Isobutane	**19**	
4.29	Methyl Alcohol	**19**	
10.47	1-Butanol	**88**	
14.11	2,2,5-Trimethylhexane	**20**	
18.32	n-Decane	**18**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160409-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160409-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160409-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/9/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160415-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/15/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.17**	0.50	0.17	**0.050**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160415-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160415-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160415-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601844

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 4/6/16
Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date(s) Received: 4/7/16
Analyst: Simon Cao/Wida Ang Date(s) Analyzed: 4/9 - 4/15/16
Sample Type: Canister(s)
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160409-MB	**84**	**103**	**103**	70-130	
	P160415-MB	**104**	**99**	**102**	70-130	
	P160409-LCS	**84**	**102**	**107**	70-130	
	P160415-LCS	**102**	**98**	**103**	70-130	
	P1601844-001	**102**	**94**	**105**	70-130	
	P1601844-002	**86**	**102**	**105**	70-130	
	P1601844-003	**87**	**101**	**104**	70-130	
	P1601844-004	**87**	**101**	**104**	70-130	
	P1601844-005	**86**	**101**	**105**	70-130	
	P1601844-006	**85**	**102**	**105**	70-130	
	P1601844-007	**86**	**101**	**105**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**175**	**89**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**150**	**80**	65-117	
74-87-3	Chloromethane	200	**165**	**83**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**147**	**72**	65-122	
75-01-4	Vinyl Chloride	200	**137**	**69**	65-128	
106-99-0	1,3-Butadiene	206	**165**	**80**	62-143	
74-83-9	Bromomethane	202	**184**	**91**	65-130	
75-00-3	Chloroethane	200	**186**	**93**	69-126	
64-17-5	Ethanol	998	**890**	**89**	57-126	
75-05-8	Acetonitrile	212	**178**	**84**	51-134	
107-02-8	Acrolein	214	**208**	**97**	55-146	
67-64-1	Acetone	1,080	**922**	**85**	57-120	
75-69-4	Trichlorofluoromethane	216	**159**	**74**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**367**	**88**	59-129	
107-13-1	Acrylonitrile	212	**208**	**98**	64-136	
75-35-4	1,1-Dichloroethene	216	**206**	**95**	72-123	
75-09-2	Methylene Chloride	222	**193**	**87**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**205**	**94**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**199**	**90**	68-118	
75-15-0	Carbon Disulfide	210	**183**	**87**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**209**	**100**	69-129	
75-34-3	1,1-Dichloroethane	212	**187**	**88**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**195**	**90**	55-128	
108-05-4	Vinyl Acetate	1,040	**1050**	**101**	66-140	
78-93-3	2-Butanone (MEK)	220	**215**	**98**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**201**	**92**	65-125	
141-78-6	Ethyl Acetate	428	**404**	**94**	64-132	
110-54-3	n-Hexane	212	**182**	**86**	58-126	
67-66-3	Chloroform	224	**190**	**85**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**210**	**95**	64-123	
107-06-2	1,2-Dichloroethane	214	**175**	**82**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**189**	**90**	68-120	
71-43-2	Benzene	226	**178**	**79**	61-110	
56-23-5	Carbon Tetrachloride	230	**204**	**89**	65-137	
110-82-7	Cyclohexane	424	**389**	**92**	68-122	
78-87-5	1,2-Dichloropropane	216	**202**	**94**	67-122	
75-27-4	Bromodichloromethane	218	**201**	**92**	71-124	
79-01-6	Trichloroethene	216	**188**	**87**	71-121	
123-91-1	1,4-Dioxane	210	**228**	**109**	67-122	
80-62-6	Methyl Methacrylate	422	**443**	**105**	76-130	
142-82-5	n-Heptane	216	**203**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**216**	**104**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**224**	**102**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**222**	**106**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**212**	**98**	73-121	
108-88-3	Toluene	218	**201**	**92**	67-117	
591-78-6	2-Hexanone	220	**230**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**235**	**107**	73-132	
106-93-4	1,2-Dibromoethane	218	**233**	**107**	73-128	
123-86-4	n-Butyl Acetate	226	**240**	**106**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160409-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/9/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**209**	**100**	67-124	
127-18-4	Tetrachloroethene	202	**207**	**102**	65-126	
108-90-7	Chlorobenzene	220	**211**	**96**	68-120	
100-41-4	Ethylbenzene	218	**213**	**98**	69-123	
179601-23-1	m,p-Xylenes	428	**413**	**96**	67-125	
75-25-2	Bromoform	228	**234**	**103**	68-153	
100-42-5	Styrene	222	**239**	**108**	68-132	
95-47-6	o-Xylene	210	**201**	**96**	67-124	
111-84-2	n-Nonane	204	**194**	**95**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**226**	**108**	72-128	
98-82-8	Cumene	208	**200**	**96**	67-124	
80-56-8	alpha-Pinene	212	**212**	**100**	67-129	
103-65-1	n-Propylbenzene	204	**198**	**97**	67-125	
622-96-8	4-Ethyltoluene	214	**204**	**95**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**209**	**98**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**213**	**98**	62-134	
100-44-7	Benzyl Chloride	220	**248**	**113**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**227**	**100**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**217**	**104**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**224**	**102**	62-134	
5989-27-5	d-Limonene	210	**207**	**99**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**249**	**114**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**245**	**107**	60-145	
91-20-3	Naphthalene	218	**232**	**106**	56-158	
87-68-3	Hexachlorobutadiene	230	**238**	**103**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160415-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/15/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**173**	**88**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**169**	**90**	65-117	
74-87-3	Chloromethane	200	**167**	**84**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**182**	**89**	65-122	
75-01-4	Vinyl Chloride	200	**205**	**103**	65-128	
106-99-0	1,3-Butadiene	206	**242**	**117**	62-143	
74-83-9	Bromomethane	202	**197**	**98**	65-130	
75-00-3	Chloroethane	200	**186**	**93**	69-126	
64-17-5	Ethanol	998	**876**	**88**	57-126	
75-05-8	Acetonitrile	212	**182**	**86**	51-134	
107-02-8	Acrolein	214	**190**	**89**	55-146	
67-64-1	Acetone	1,080	**880**	**81**	57-120	
75-69-4	Trichlorofluoromethane	216	**172**	**80**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**373**	**89**	59-129	
107-13-1	Acrylonitrile	212	**208**	**98**	64-136	
75-35-4	1,1-Dichloroethene	216	**205**	**95**	72-123	
75-09-2	Methylene Chloride	222	**181**	**82**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**229**	**105**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**195**	**89**	68-118	
75-15-0	Carbon Disulfide	210	**154**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**208**	**99**	69-129	
75-34-3	1,1-Dichloroethane	212	**192**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**197**	**91**	55-128	
108-05-4	Vinyl Acetate	1,040	**1110**	**107**	66-140	
78-93-3	2-Butanone (MEK)	220	**168**	**76**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844

ALS Sample ID: P160415-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**209**	**96**	65-125	
141-78-6	Ethyl Acetate	428	**425**	**99**	64-132	
110-54-3	n-Hexane	212	**173**	**82**	58-126	
67-66-3	Chloroform	224	**198**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**211**	**96**	64-123	
107-06-2	1,2-Dichloroethane	214	**201**	**94**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**196**	**93**	68-120	
71-43-2	Benzene	226	**190**	**84**	61-110	
56-23-5	Carbon Tetrachloride	230	**210**	**91**	65-137	
110-82-7	Cyclohexane	424	**364**	**86**	68-122	
78-87-5	1,2-Dichloropropane	216	**196**	**91**	67-122	
75-27-4	Bromodichloromethane	218	**211**	**97**	71-124	
79-01-6	Trichloroethene	216	**187**	**87**	71-121	
123-91-1	1,4-Dioxane	210	**215**	**102**	67-122	
80-62-6	Methyl Methacrylate	422	**389**	**92**	76-130	
142-82-5	n-Heptane	216	**191**	**88**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**202**	**92**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**213**	**101**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**200**	**93**	73-121	
108-88-3	Toluene	218	**159**	**73**	67-117	
591-78-6	2-Hexanone	220	**198**	**90**	59-128	
124-48-1	Dibromochloromethane	220	**221**	**100**	73-132	
106-93-4	1,2-Dibromoethane	218	**206**	**94**	73-128	
123-86-4	n-Butyl Acetate	226	**213**	**94**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601844
ALS Sample ID: P160415-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Wida Ang
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/15/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**185**	**88**	67-124	
127-18-4	Tetrachloroethene	202	**176**	**87**	65-126	
108-90-7	Chlorobenzene	220	**190**	**86**	68-120	
100-41-4	Ethylbenzene	218	**192**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**372**	**87**	67-125	
75-25-2	Bromoform	228	**218**	**96**	68-153	
100-42-5	Styrene	222	**212**	**95**	68-132	
95-47-6	o-Xylene	210	**183**	**87**	67-124	
111-84-2	n-Nonane	204	**184**	**90**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**192**	**91**	72-128	
98-82-8	Cumene	208	**180**	**87**	67-124	
80-56-8	alpha-Pinene	212	**188**	**89**	67-129	
103-65-1	n-Propylbenzene	204	**181**	**89**	67-125	
622-96-8	4-Ethyltoluene	214	**183**	**86**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**186**	**87**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**194**	**89**	62-134	
100-44-7	Benzyl Chloride	220	**236**	**107**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**198**	**87**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**187**	**90**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**195**	**89**	62-134	
5989-27-5	d-Limonene	210	**190**	**90**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**218**	**100**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**203**	**88**	60-145	
91-20-3	Naphthalene	218	**193**	**89**	56-158	
87-68-3	Hexachlorobutadiene	230	**189**	**82**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 14, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601846.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 3:31 pm, Apr 14, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601846
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

A leak tight connection with the autosampler was not achieved for the sample identified as CBL-SU; however, the sample was analyzed and reported. Results from this sample should be considered estimated and utilized accordingly.

Two of the three containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601846
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 16:20

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601846-001	Air	4/7/2016	14:25	CC00200	-6.36	3.75	X
P1601846-002	Air	4/7/2016	14:41	AS00327	-5.05	3.73	X
P1601846-003	Air	4/7/2016	14:48	CC00203	-5.69	3.81	X

AIR SAMPLING DATA SHEET

P160 1846

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-7-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Sampters-Hovaness Dekeyan, Wallace Sconiers	
	Rotameter: —	Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
(1) CBC-SU ~~Residence ID Number SU (19-SU)~~	Summa	TO-15 0.10 ug/m³ 75	-18	-18/-12.5*	0817	1425	—	—	NE Classroom #15 corner - Castlebay School Summa - Restek #1423 Regulator - Condyne #F219646
			Avg:						
(2) CBEXT-SU			-28	-9	0834	1441	—	—	Summa - Entech #13699 Regulator - Condyne P210724 N. outdoor corridor -N
			Avg:						
(3) CBL-SU			-28	-11	0849	1448	—	—	Summa - Restek #3152 Reg. - Condyne F212629 N. portion of library
			Avg:						
			Avg:						
			Avg:						

5.0122

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods * Regulator read -18, while closing, reading dropped to -12.5 instantly and held constant, ~1/4 turn of valve on summa. Fully closed afterwards.

ALS Life Sciences Division | Environmental
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Relinquished by: Wallace Sconiers	Date: 4-7-16	Time: 1529	Received by:	Date: 4/7/16	Time: 1544		
Relinquished by:	Date: 4/7/16	Time: 1550	Received by:	Date: 4/7/16	Time: 1550		
Relinquished by:	Date: 4/7/16	Time: 1620	Received by:	Date: 4/7/16	Time: 1620		

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601846

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601846-001.01	Canister					
P1601846-002.01	6.0 L Silonite Can					
P1601846-003.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00200

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.36 Final Pressure (psig): 3.75

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.3**	1.1	0.31	**1.4**	0.64	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.38	**0.38**	0.22	0.076	
74-87-3	Chloromethane	**0.66**	0.44	0.31	**0.32**	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.060	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.086	0.082	
106-99-0	1,3-Butadiene	ND	0.44	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.44	0.21	ND	0.11	0.053	
75-00-3	Chloroethane	ND	0.44	0.19	ND	0.17	0.073	
64-17-5	Ethanol	**22**	11	1.8	**12**	5.9	0.94	
75-05-8	Acetonitrile	ND	1.1	0.40	ND	0.66	0.24	
107-02-8	Acrolein	**3.0**	4.4	0.38	**1.3**	1.9	0.16	**J**
67-64-1	Acetone	**26**	11	1.7	**11**	4.7	0.72	
75-69-4	Trichlorofluoromethane	**0.97**	0.22	0.13	**0.17**	0.039	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.1**	11	0.93	**0.84**	4.5	0.38	**J**
107-13-1	Acrylonitrile	ND	1.1	0.38	ND	0.51	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.21	ND	0.056	0.052	
75-09-2	Methylene Chloride	**120**	1.1	0.38	**35**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.071	0.054	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.22	0.18	**0.059**	0.029	0.023	
75-15-0	Carbon Disulfide	**1.3**	11	0.33	**0.41**	3.5	0.11	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.051	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.055	0.043	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.21	ND	0.061	0.057	
108-05-4	Vinyl Acetate	**2.7**	11	1.4	**0.77**	3.1	0.41	**J**
78-93-3	2-Butanone (MEK)	**4.0**	11	0.46	**1.3**	3.7	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00200

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.36 Final Pressure (psig): 3.75

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.056	0.051	
141-78-6	Ethyl Acetate	ND	2.2	0.77	ND	0.61	0.21	
110-54-3	n-Hexane	**0.54**	1.1	0.33	**0.15**	0.31	0.094	**J**
67-66-3	Chloroform	ND	0.22	0.20	ND	0.045	0.040	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.44	ND	0.37	0.15	
107-06-2	1,2-Dichloroethane	ND	0.22	0.14	ND	0.055	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.041	0.030	
71-43-2	Benzene	**0.67**	0.22	0.17	**0.21**	0.069	0.055	
56-23-5	Carbon Tetrachloride	**0.36**	0.22	0.19	**0.058**	0.035	0.030	
110-82-7	Cyclohexane	ND	2.2	0.64	ND	0.64	0.19	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.048	0.040	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.022	
79-01-6	Trichloroethene	ND	0.22	0.20	ND	0.041	0.037	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.31	0.098	
80-62-6	Methyl Methacrylate	ND	2.2	0.69	ND	0.54	0.17	
142-82-5	n-Heptane	**1.0**	1.1	0.38	**0.24**	0.27	0.092	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.068	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.35	ND	0.27	0.086	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.078	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.041	0.032	
108-88-3	Toluene	**1.8**	1.1	0.38	**0.48**	0.29	0.10	
591-78-6	2-Hexanone	**0.56**	1.1	0.35	**0.14**	0.27	0.086	**J**
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.024	
123-86-4	n-Butyl Acetate	**0.54**	1.1	0.35	**0.11**	0.23	0.074	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00200

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.36 Final Pressure (psig): 3.75

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.40	ND	0.24	0.085	
127-18-4	Tetrachloroethene	ND	0.22	0.16	ND	0.033	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.048	0.040	
100-41-4	Ethylbenzene	**0.37**	1.1	0.35	**0.085**	0.25	0.081	**J**
179601-23-1	m,p-Xylenes	**1.2**	1.1	0.64	**0.28**	0.25	0.15	
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	ND	1.1	0.33	ND	0.26	0.078	
95-47-6	o-Xylene	**0.57**	1.1	0.33	**0.13**	0.25	0.076	**J**
111-84-2	n-Nonane	ND	1.1	0.33	ND	0.21	0.063	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.19	ND	0.032	0.027	
98-82-8	Cumene	ND	1.1	0.33	ND	0.22	0.067	
80-56-8	alpha-Pinene	**0.51**	1.1	0.31	**0.092**	0.20	0.056	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.35	ND	0.22	0.072	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.072	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.072	
95-63-6	1,2,4-Trimethylbenzene	**0.79**	1.1	0.33	**0.16**	0.22	0.067	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.037	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.17	ND	0.037	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.21	ND	0.037	0.034	
5989-27-5	d-Limonene	ND	1.1	0.31	ND	0.20	0.056	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.11	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.048	
91-20-3	Naphthalene	ND	1.1	0.40	ND	0.21	0.076	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00327

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.05 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.2**	0.96	0.27	**0.67**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.96	0.32	**0.40**	0.19	0.066	
74-87-3	Chloromethane	**0.60**	0.38	0.27	**0.29**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	0.36	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.075	0.071	
106-99-0	1,3-Butadiene	ND	0.38	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.18	ND	0.098	0.046	
75-00-3	Chloroethane	ND	0.38	0.17	ND	0.14	0.063	
64-17-5	Ethanol	**37**	9.6	1.5	**19**	5.1	0.81	
75-05-8	Acetonitrile	**0.44**	0.96	0.34	**0.26**	0.57	0.20	**J**
107-02-8	Acrolein	ND	3.8	0.32	ND	1.7	0.14	
67-64-1	Acetone	**15**	9.6	1.5	**6.3**	4.0	0.62	
75-69-4	Trichlorofluoromethane	**1.0**	0.19	0.11	**0.18**	0.034	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.2**	9.6	0.80	**0.49**	3.9	0.33	**J**
107-13-1	Acrylonitrile	ND	0.96	0.32	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
75-09-2	Methylene Chloride	**1.7**	0.96	0.32	**0.48**	0.28	0.094	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.061	0.046	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.19	0.15	**0.059**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.6	0.29	ND	3.1	0.092	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.047	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.053	0.049	
108-05-4	Vinyl Acetate	ND	9.6	1.2	ND	2.7	0.35	
78-93-3	2-Butanone (MEK)	**1.3**	9.6	0.40	**0.44**	3.2	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846

ALS Sample ID: P1601846-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00327

Date Collected: 4/7/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.05 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.048	0.044	
141-78-6	Ethyl Acetate	**1.1**	1.9	0.67	**0.29**	0.53	0.19	**J**
110-54-3	n-Hexane	**0.52**	0.96	0.29	**0.15**	0.27	0.081	**J**
67-66-3	Chloroform	**0.18**	0.19	0.17	**0.036**	0.039	0.035	**J**
109-99-9	Tetrahydrofuran (THF)	ND	0.96	0.38	ND	0.32	0.13	
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.047	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**0.72**	0.19	0.15	**0.23**	0.060	0.047	
56-23-5	Carbon Tetrachloride	**0.38**	0.19	0.16	**0.060**	0.030	0.026	
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.041	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.96	0.31	ND	0.27	0.085	
80-62-6	Methyl Methacrylate	ND	1.9	0.59	ND	0.47	0.14	
142-82-5	n-Heptane	**0.33**	0.96	0.32	**0.080**	0.23	0.079	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.27	ND	0.21	0.059	
108-10-1	4-Methyl-2-pentanone	ND	0.96	0.31	ND	0.23	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.31	ND	0.21	0.067	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**2.1**	0.96	0.32	**0.56**	0.25	0.086	
591-78-6	2-Hexanone	ND	0.96	0.31	ND	0.23	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.35**	0.96	0.31	**0.074**	0.20	0.064	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00327

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.05 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.96	0.34	ND	0.20	0.074	
127-18-4	Tetrachloroethene	**0.16**	0.19	0.14	**0.024**	0.028	0.020	**J**
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.041	0.034	
100-41-4	Ethylbenzene	**0.31**	0.96	0.31	**0.072**	0.22	0.070	**J**
179601-23-1	m,p-Xylenes	**0.81**	0.96	0.55	**0.19**	0.22	0.13	**J**
75-25-2	Bromoform	ND	0.96	0.29	ND	0.092	0.028	
100-42-5	Styrene	ND	0.96	0.29	ND	0.22	0.067	
95-47-6	o-Xylene	**0.32**	0.96	0.29	**0.074**	0.22	0.066	**J**
111-84-2	n-Nonane	ND	0.96	0.29	ND	0.18	0.055	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.023	
98-82-8	Cumene	ND	0.96	0.29	ND	0.19	0.058	
80-56-8	alpha-Pinene	**0.58**	0.96	0.27	**0.10**	0.17	0.048	**J**
103-65-1	n-Propylbenzene	ND	0.96	0.31	ND	0.19	0.062	
622-96-8	4-Ethyltoluene	ND	0.96	0.31	ND	0.19	0.062	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	0.31	ND	0.19	0.062	
95-63-6	1,2,4-Trimethylbenzene	ND	0.96	0.29	ND	0.19	0.058	
100-44-7	Benzyl Chloride	ND	0.96	0.21	ND	0.18	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.19	0.15	ND	0.032	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	ND	0.96	0.27	ND	0.17	0.048	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.96	0.19	ND	0.099	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	0.31	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.96	0.34	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.96	0.27	ND	0.090	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00203

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.69 Final Pressure (psig): 3.81

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.1**	1.0	0.29	**0.65**	0.60	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	0.35	**0.43**	0.21	0.071	
74-87-3	Chloromethane	**0.53**	0.41	0.29	**0.26**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.19	ND	0.080	0.076	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**19**	10	1.6	**10**	5.4	0.87	
75-05-8	Acetonitrile	**0.93**	1.0	0.37	**0.55**	0.61	0.22	**J**
107-02-8	Acrolein	**1.1**	4.1	0.35	**0.48**	1.8	0.15	**J**
67-64-1	Acetone	**21**	10	1.6	**8.8**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**1.1**	0.21	0.12	**0.20**	0.036	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.3**	10	0.86	**0.53**	4.2	0.35	**J**
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-09-2	Methylene Chloride	**15**	1.0	0.35	**4.2**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.51**	0.21	0.16	**0.066**	0.027	0.021	
75-15-0	Carbon Disulfide	**2.4**	10	0.31	**0.77**	3.3	0.099	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.047	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.38	
78-93-3	2-Butanone (MEK)	**4.1**	10	0.43	**1.4**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846

ALS Sample ID: P1601846-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00203

Date Collected: 4/7/16

Date Received: 4/7/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.69 Final Pressure (psig): 3.81

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	**2.1**	2.1	0.72	**0.58**	0.57	0.20	
110-54-3	n-Hexane	**1.3**	1.0	0.31	**0.36**	0.29	0.087	
67-66-3	Chloroform	ND	0.21	0.18	ND	0.042	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	ND	0.21	0.13	ND	0.051	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**0.68**	0.21	0.16	**0.21**	0.064	0.051	
56-23-5	Carbon Tetrachloride	**0.41**	0.21	0.18	**0.065**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.59	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.044	0.037	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.18	ND	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.28	0.091	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.50	0.16	
142-82-5	n-Heptane	ND	1.0	0.35	ND	0.25	0.085	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.063	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.33	ND	0.25	0.080	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.072	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.16	ND	0.038	0.030	
108-88-3	Toluene	**5.1**	1.0	0.35	**1.4**	0.27	0.093	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.25	0.080	
124-48-1	Dibromochloromethane	ND	0.21	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.21	0.17	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**0.37**	1.0	0.33	**0.078**	0.22	0.069	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P1601846-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00203

Date Collected: 4/7/16
Date Received: 4/7/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.69 Final Pressure (psig): 3.81

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.37	ND	0.22	0.079	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	**0.34**	1.0	0.33	**0.078**	0.24	0.076	**J**
179601-23-1	m,p-Xylenes	**0.98**	1.0	0.59	**0.22**	0.24	0.14	**J**
75-25-2	Bromoform	ND	1.0	0.31	ND	0.099	0.030	
100-42-5	Styrene	ND	1.0	0.31	ND	0.24	0.072	
95-47-6	o-Xylene	**0.46**	1.0	0.31	**0.11**	0.24	0.071	**J**
111-84-2	n-Nonane	ND	1.0	0.31	ND	0.20	0.059	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
80-56-8	alpha-Pinene	**0.79**	1.0	0.29	**0.14**	0.18	0.052	**J**
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	**0.40**	1.0	0.31	**0.081**	0.21	0.063	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**0.49**	1.0	0.29	**0.088**	0.18	0.052	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.070	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.096	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P160410-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601846

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 4/7/16
Analyst: Evelyn Alvarez Date(s) Received: 4/7/16
Sample Type: Canister(s) Date(s) Analyzed: 4/10/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160410-MB	**98**	**100**	**98**	70-130	
P160410-LCS	**98**	**98**	**101**	70-130	
P1601846-001	**97**	**99**	**102**	70-130	
P1601846-002	**98**	**98**	**100**	70-130	
P1601846-003	**99**	**98**	**100**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**183**	**92**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**158**	**77**	65-122	
75-01-4	Vinyl Chloride	200	**183**	**92**	65-128	
106-99-0	1,3-Butadiene	206	**205**	**100**	62-143	
74-83-9	Bromomethane	202	**179**	**89**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**951**	**95**	57-126	
75-05-8	Acetonitrile	212	**199**	**94**	51-134	
107-02-8	Acrolein	214	**206**	**96**	55-146	
67-64-1	Acetone	1,080	**1090**	**101**	57-120	
75-69-4	Trichlorofluoromethane	216	**156**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**418**	**100**	59-129	
107-13-1	Acrylonitrile	212	**225**	**106**	64-136	
75-35-4	1,1-Dichloroethene	216	**198**	**92**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**220**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**189**	**86**	68-118	
75-15-0	Carbon Disulfide	210	**153**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**183**	**85**	55-128	
108-05-4	Vinyl Acetate	1,040	**1090**	**105**	66-140	
78-93-3	2-Butanone (MEK)	220	**232**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**478**	**112**	64-132	
110-54-3	n-Hexane	212	**204**	**96**	58-126	
67-66-3	Chloroform	224	**195**	**87**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**199**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**182**	**85**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**169**	**80**	68-120	
71-43-2	Benzene	226	**195**	**86**	61-110	
56-23-5	Carbon Tetrachloride	230	**177**	**77**	65-137	
110-82-7	Cyclohexane	424	**387**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**191**	**88**	71-124	
79-01-6	Trichloroethene	216	**174**	**81**	71-121	
123-91-1	1,4-Dioxane	210	**216**	**103**	67-122	
80-62-6	Methyl Methacrylate	422	**435**	**103**	76-130	
142-82-5	n-Heptane	216	**203**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**242**	**110**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**208**	**99**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**197**	**91**	73-121	
108-88-3	Toluene	218	**183**	**84**	67-117	
591-78-6	2-Hexanone	220	**232**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**194**	**88**	73-132	
106-93-4	1,2-Dibromoethane	218	**200**	**92**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601846
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**198**	**94**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**185**	**84**	68-120	
100-41-4	Ethylbenzene	218	**191**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**381**	**89**	67-125	
75-25-2	Bromoform	228	**194**	**85**	68-153	
100-42-5	Styrene	222	**202**	**91**	68-132	
95-47-6	o-Xylene	210	**185**	**88**	67-124	
111-84-2	n-Nonane	204	**204**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**201**	**96**	72-128	
98-82-8	Cumene	208	**179**	**86**	67-124	
80-56-8	alpha-Pinene	212	**192**	**91**	67-129	
103-65-1	n-Propylbenzene	204	**185**	**91**	67-125	
622-96-8	4-Ethyltoluene	214	**187**	**87**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**185**	**86**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**196**	**90**	62-134	
100-44-7	Benzyl Chloride	220	**197**	**90**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**197**	**86**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**186**	**89**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**190**	**86**	62-134	
5989-27-5	d-Limonene	210	**211**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**178**	**82**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**175**	**76**	60-145	
91-20-3	Naphthalene	218	**163**	**75**	56-158	
87-68-3	Hexachlorobutadiene	230	**174**	**76**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 14, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 8, 2016. For your reference, these analyses have been assigned our service request number P1601872.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 3:32 pm, Apr 14, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601872
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 8, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Four of the containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601872
Project ID: Aliso Canyon / 603287048

Date Received: 4/8/2016
Time Received: 15:09

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601872-001	Air	4/8/2016	09:06	AS00111	-5.94	5.16	X
P1601872-002	Air	4/8/2016	10:02	CC00202	-3.62	3.98	X
P1601872-003	Air	4/8/2016	12:01	AC00897	-5.57	3.74	X
P1601872-004	Air	4/8/2016	13:37	AS00979	-0.78	3.76	X
P1601872-005	Air	4/8/2016	13:45	AC01837	-0.21	3.51	X

P1601872

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-8-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Samplers-Wallace Sconiers/Robin Fomalont	
	Rotameter: —	Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
			Avg:						
74-SU			-28	-11	0927	0906	1419	—	N.E. corner of home, 1st floor - Summa - Entech #4994 Reg. - McDaniel - PCB00114
			Avg:						
43-SU			-28.5	-7	1014	1002	1428	—	North in home - dining room table / living room table
			Avg:						
125-SU			-28.5	-11.5	1208	1201	1433	—	N. office near desk + window Summa - Restek #1939 Reg. Cologne - F(22A815K
			Avg:						
56-SU-G	↓	↓	—	—	1337	—	—	—	Entech SN-20442 Landing in staircase next to living room
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: WallaceSconiers	Date: 4-8-16	Time: 1352	Received by:	Date: 4/8/16	Time: 1410
Relinquished by:	Date: 4/8/16	Time: 1509	Received by:	Date: 4/8/16	Time: 1509
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

P1601372

Page 2 of 2 (+93 of +93)

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/8/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Shannan Hill/Camilla Westberg
	Rotameter: n/a **Serial # :** n/a	**Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU ~~1135~~ 1144 4/8/16	Summa Silonite 11944	TO-15 0.10 ug/m³ 75	Pressure 4/8/16		1345				Dining Rm table, ~3ft tall. N side of house ~~Grab sample~~
			Avg:						
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

ALS Life Sciences Division | Environmental
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Relinquished by:	**Date:** 4/8/16	**Time:** 1402	**Received by:**	**Date:** 4/8/16	**Time:** 1483
Relinquished by:	**Date:** 4/8/16	**Time:** 1505	**Received by:**	**Date:** 4/8/16	**Time:** 1509
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

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ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601872

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/8/16 Date opened: 4/8/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601872-001.01	6.0 L Silonite Can					
P1601872-002.01	Canister					
P1601872-003.01	6.0 L Ambient Can					
P1601872-004.01	6.0 L Silonite Can					
P1601872-005.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00111

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16 & 4/12/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -5.94 Final Pressure (psig): 5.16

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**8.1**	1.1	0.32	**4.7**	0.66	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.5**	1.1	0.39	**0.50**	0.23	0.078	
74-87-3	Chloromethane	**0.78**	0.45	0.32	**0.38**	0.22	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.43	ND	0.16	0.062	
75-01-4	Vinyl Chloride	ND	0.23	0.22	ND	0.089	0.084	
106-99-0	1,3-Butadiene	ND	0.45	0.32	ND	0.21	0.14	
74-83-9	Bromomethane	ND	0.45	0.21	ND	0.12	0.054	
75-00-3	Chloroethane	ND	0.45	0.20	ND	0.17	0.075	
64-17-5	Ethanol	**1,800**	110	18	**940**	60	9.6	**D**
75-05-8	Acetonitrile	**0.44**	1.1	0.41	**0.26**	0.68	0.24	**J**
107-02-8	Acrolein	**2.9**	4.5	0.39	**1.3**	2.0	0.17	**J**
67-64-1	Acetone	**74**	11	1.7	**31**	4.8	0.74	
75-69-4	Trichlorofluoromethane	**1.1**	0.23	0.13	**0.19**	0.040	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**44**	11	0.95	**18**	4.6	0.39	
107-13-1	Acrylonitrile	ND	1.1	0.39	ND	0.52	0.18	
75-35-4	1,1-Dichloroethene	ND	0.23	0.21	ND	0.057	0.053	
75-09-2	Methylene Chloride	**82**	1.1	0.39	**24**	0.33	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.23	0.17	ND	0.073	0.055	
76-13-1	Trichlorotrifluoroethane	**0.43**	0.23	0.18	**0.057**	0.030	0.024	
75-15-0	Carbon Disulfide	ND	11	0.34	ND	3.6	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.21	ND	0.057	0.052	
75-34-3	1,1-Dichloroethane	ND	0.23	0.18	ND	0.056	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.23	0.21	ND	0.063	0.059	
108-05-4	Vinyl Acetate	ND	11	1.5	ND	3.2	0.42	
78-93-3	2-Butanone (MEK)	**2.6**	11	0.48	**0.88**	3.8	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00111

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16 & 4/12/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -5.94 Final Pressure (psig): 5.16

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.23	0.21	ND	0.057	0.053	
141-78-6	Ethyl Acetate	**15**	2.3	0.79	**4.2**	0.63	0.22	
110-54-3	n-Hexane	**0.72**	1.1	0.34	**0.20**	0.32	0.097	**J**
67-66-3	Chloroform	**0.35**	0.23	0.20	**0.073**	0.047	0.041	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.45	ND	0.38	0.15	
107-06-2	1,2-Dichloroethane	ND	0.23	0.14	ND	0.056	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.17	ND	0.042	0.031	
71-43-2	Benzene	**0.93**	0.23	0.18	**0.29**	0.071	0.056	
56-23-5	Carbon Tetrachloride	**0.38**	0.23	0.20	**0.061**	0.036	0.031	
110-82-7	Cyclohexane	ND	2.3	0.66	ND	0.66	0.19	
78-87-5	1,2-Dichloropropane	ND	0.23	0.19	ND	0.049	0.041	
75-27-4	Bromodichloromethane	**0.21**	0.23	0.15	**0.031**	0.034	0.023	**J**
79-01-6	Trichloroethene	ND	0.23	0.20	ND	0.042	0.038	
123-91-1	1,4-Dioxane	ND	1.1	0.36	ND	0.32	0.10	
80-62-6	Methyl Methacrylate	ND	2.3	0.70	ND	0.55	0.17	
142-82-5	n-Heptane	**0.67**	1.1	0.39	**0.16**	0.28	0.094	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.32	ND	0.25	0.070	
108-10-1	4-Methyl-2-pentanone	**1.5**	1.1	0.36	**0.36**	0.28	0.089	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.36	ND	0.25	0.080	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.18	ND	0.042	0.033	
108-88-3	Toluene	**6.7**	1.1	0.39	**1.8**	0.30	0.10	
591-78-6	2-Hexanone	ND	1.1	0.36	ND	0.28	0.089	
124-48-1	Dibromochloromethane	**0.37**	0.23	0.19	**0.043**	0.027	0.023	
106-93-4	1,2-Dibromoethane	ND	0.23	0.19	ND	0.030	0.025	
123-86-4	n-Butyl Acetate	**3.3**	1.1	0.36	**0.69**	0.24	0.076	

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Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00111

Date Collected: 4/8/16

Date Received: 4/8/16

Date Analyzed: 4/10/16 & 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -5.94 Final Pressure (psig): 5.16

Canister Dilution Factor: 2.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.53**	1.1	0.41	**0.11**	0.24	0.087	**J**
127-18-4	Tetrachloroethene	**0.73**	0.23	0.16	**0.11**	0.033	0.024	
108-90-7	Chlorobenzene	ND	0.23	0.19	ND	0.049	0.041	
100-41-4	Ethylbenzene	**0.52**	1.1	0.36	**0.12**	0.26	0.084	**J**
179601-23-1	m,p-Xylenes	**1.4**	1.1	0.66	**0.32**	0.26	0.15	
75-25-2	Bromoform	**0.41**	1.1	0.34	**0.040**	0.11	0.033	**J**
100-42-5	Styrene	**0.76**	1.1	0.34	**0.18**	0.27	0.080	**J**
95-47-6	o-Xylene	**0.55**	1.1	0.34	**0.13**	0.26	0.078	**J**
111-84-2	n-Nonane	**1.6**	1.1	0.34	**0.31**	0.22	0.065	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.19	ND	0.033	0.028	
98-82-8	Cumene	ND	1.1	0.34	ND	0.23	0.069	
80-56-8	alpha-Pinene	**4.0**	1.1	0.32	**0.72**	0.20	0.057	
103-65-1	n-Propylbenzene	ND	1.1	0.36	ND	0.23	0.074	
622-96-8	4-Ethyltoluene	**0.49**	1.1	0.36	**0.10**	0.23	0.074	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.67**	1.1	0.36	**0.14**	0.23	0.074	**J**
95-63-6	1,2,4-Trimethylbenzene	**2.3**	1.1	0.34	**0.48**	0.23	0.069	
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.048	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.17	ND	0.038	0.028	
106-46-7	1,4-Dichlorobenzene	**2.2**	0.23	0.17	**0.36**	0.038	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.21	ND	0.038	0.035	
5989-27-5	d-Limonene	**30**	1.1	0.32	**5.3**	0.20	0.057	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.36	ND	0.15	0.049	
91-20-3	Naphthalene	ND	1.1	0.41	ND	0.22	0.078	
87-68-3	Hexachlorobutadiene	ND	1.1	0.32	ND	0.11	0.030	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/8/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16 & 4/12/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	AS00111		

Initial Pressure (psig): -5.94 Final Pressure (psig): 5.16

Canister Dilution Factor: 2.27

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.76	Norflurane	**27**	
3.95	Chlorodifluoromethane	**890**	
4.63	Isobutane	**96**	
5.15	n-Butane	**46**	
21.99	Unidentified Siloxane	**120**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00202

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.62 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**13**	0.85	0.24	**7.3**	0.49	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.85	0.29	**0.39**	0.17	0.058	
74-87-3	Chloromethane	**0.65**	0.34	0.24	**0.32**	0.16	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	0.32	ND	0.12	0.046	
75-01-4	Vinyl Chloride	ND	0.17	0.16	ND	0.066	0.063	
106-99-0	1,3-Butadiene	ND	0.34	0.24	ND	0.15	0.11	
74-83-9	Bromomethane	ND	0.34	0.16	ND	0.087	0.040	
75-00-3	Chloroethane	ND	0.34	0.15	ND	0.13	0.056	
64-17-5	Ethanol	**82**	8.5	1.4	**43**	4.5	0.72	
75-05-8	Acetonitrile	**0.42**	0.85	0.30	**0.25**	0.50	0.18	**J**
107-02-8	Acrolein	**9.7**	3.4	0.29	**4.2**	1.5	0.13	
67-64-1	Acetone	**47**	8.5	1.3	**20**	3.6	0.55	
75-69-4	Trichlorofluoromethane	**0.93**	0.17	0.096	**0.17**	0.030	0.017	
67-63-0	2-Propanol (Isopropyl Alcohol)	**23**	8.5	0.71	**9.3**	3.4	0.29	
107-13-1	Acrylonitrile	ND	0.85	0.29	ND	0.39	0.13	
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.043	0.040	
75-09-2	Methylene Chloride	**83**	0.85	0.29	**24**	0.24	0.083	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.054	0.041	
76-13-1	Trichlorotrifluoroethane	**0.34**	0.17	0.14	**0.045**	0.022	0.018	
75-15-0	Carbon Disulfide	**3.4**	8.5	0.25	**1.1**	2.7	0.081	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.15	ND	0.043	0.039	
75-34-3	1,1-Dichloroethane	ND	0.17	0.13	ND	0.042	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.047	0.044	
108-05-4	Vinyl Acetate	ND	8.5	1.1	ND	2.4	0.31	
78-93-3	2-Butanone (MEK)	**12**	8.5	0.35	**4.1**	2.9	0.12	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00202

Date Collected: 4/8/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.62 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.16	ND	0.043	0.039	
141-78-6	Ethyl Acetate	**5.4**	1.7	0.59	**1.5**	0.47	0.16	
110-54-3	n-Hexane	**0.49**	0.85	0.25	**0.14**	0.24	0.072	**J**
67-66-3	Chloroform	ND	0.17	0.15	ND	0.035	0.031	
109-99-9	Tetrahydrofuran (THF)	**34**	0.85	0.34	**12**	0.29	0.11	
107-06-2	1,2-Dichloroethane	**0.80**	0.17	0.10	**0.20**	0.042	0.026	
71-55-6	1,1,1-Trichloroethane	**0.18**	0.17	0.13	**0.033**	0.031	0.023	
71-43-2	Benzene	**0.50**	0.17	0.13	**0.16**	0.053	0.042	
56-23-5	Carbon Tetrachloride	**0.26**	0.17	0.15	**0.042**	0.027	0.023	
110-82-7	Cyclohexane	ND	1.7	0.49	ND	0.49	0.14	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.037	0.030	
75-27-4	Bromodichloromethane	ND	0.17	0.11	ND	0.025	0.017	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.031	0.028	
123-91-1	1,4-Dioxane	ND	0.85	0.27	ND	0.23	0.075	
80-62-6	Methyl Methacrylate	ND	1.7	0.52	ND	0.41	0.13	
142-82-5	n-Heptane	**0.31**	0.85	0.29	**0.075**	0.21	0.070	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.24	ND	0.19	0.052	
108-10-1	4-Methyl-2-pentanone	**0.51**	0.85	0.27	**0.13**	0.21	0.066	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.27	ND	0.19	0.060	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.14	ND	0.031	0.025	
108-88-3	Toluene	**6.1**	0.85	0.29	**1.6**	0.22	0.076	
591-78-6	2-Hexanone	**0.39**	0.85	0.27	**0.095**	0.21	0.066	**J**
124-48-1	Dibromochloromethane	ND	0.17	0.14	ND	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.14	ND	0.022	0.019	
123-86-4	n-Butyl Acetate	**0.98**	0.85	0.27	**0.21**	0.18	0.057	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00202

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.62 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.85	0.30	ND	0.18	0.065	
127-18-4	Tetrachloroethene	ND	0.17	0.12	ND	0.025	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.037	0.030	
100-41-4	Ethylbenzene	**0.31**	0.85	0.27	**0.072**	0.19	0.062	**J**
179601-23-1	m,p-Xylenes	**0.70**	0.85	0.49	**0.16**	0.19	0.11	**J**
75-25-2	Bromoform	ND	0.85	0.25	ND	0.082	0.025	
100-42-5	Styrene	**5.7**	0.85	0.25	**1.3**	0.20	0.060	
95-47-6	o-Xylene	**0.31**	0.85	0.25	**0.070**	0.19	0.058	**J**
111-84-2	n-Nonane	**0.42**	0.85	0.25	**0.081**	0.16	0.048	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.14	ND	0.025	0.021	
98-82-8	Cumene	ND	0.85	0.25	ND	0.17	0.052	
80-56-8	alpha-Pinene	**2.7**	0.85	0.24	**0.49**	0.15	0.042	
103-65-1	n-Propylbenzene	ND	0.85	0.27	ND	0.17	0.055	
622-96-8	4-Ethyltoluene	ND	0.85	0.27	ND	0.17	0.055	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	0.27	ND	0.17	0.055	
95-63-6	1,2,4-Trimethylbenzene	**0.57**	0.85	0.25	**0.12**	0.17	0.052	**J**
100-44-7	Benzyl Chloride	ND	0.85	0.19	ND	0.16	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.13	ND	0.028	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.17	0.13	ND	0.028	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.028	0.026	
5989-27-5	d-Limonene	**1.8**	0.85	0.24	**0.32**	0.15	0.042	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.85	0.17	ND	0.087	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.85	0.27	ND	0.11	0.036	
91-20-3	Naphthalene	ND	0.85	0.30	ND	0.16	0.058	
87-68-3	Hexachlorobutadiene	ND	0.85	0.24	ND	0.079	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/8/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00202		

Initial Pressure (psig): -3.62 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.69

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.04	Sulfur Dioxide	**>140**	**!**

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00897

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.74

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**190**	1.0	0.28	**110**	0.59	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.0	0.34	**0.39**	0.20	0.069	
74-87-3	Chloromethane	**0.69**	0.40	0.28	**0.33**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.079	0.075	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.19	ND	0.10	0.048	
75-00-3	Chloroethane	ND	0.40	0.18	ND	0.15	0.067	
64-17-5	Ethanol	**430**	10	1.6	**230**	5.4	0.86	
75-05-8	Acetonitrile	**0.43**	1.0	0.36	**0.26**	0.60	0.22	**J**
107-02-8	Acrolein	**2.0**	4.0	0.34	**0.86**	1.8	0.15	**J**
67-64-1	Acetone	**52**	10	1.6	**22**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**0.99**	0.20	0.12	**0.18**	0.036	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**410**	10	0.85	**170**	4.1	0.35	
107-13-1	Acrylonitrile	**0.47**	1.0	0.34	**0.22**	0.47	0.16	**J**
75-35-4	1,1-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
75-09-2	Methylene Chloride	**200**	1.0	0.34	**58**	0.29	0.099	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.065	0.049	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.20	0.16	**0.059**	0.026	0.021	
75-15-0	Carbon Disulfide	ND	10	0.30	ND	3.2	0.097	
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.051	0.046	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.050	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.19	ND	0.056	0.052	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.37	
78-93-3	2-Butanone (MEK)	**2.6**	10	0.42	**0.89**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00897

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.74

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.19	ND	0.051	0.047	
141-78-6	Ethyl Acetate	**22**	2.0	0.71	**6.0**	0.56	0.20	
110-54-3	n-Hexane	**1.9**	1.0	0.30	**0.54**	0.29	0.086	
67-66-3	Chloroform	**0.47**	0.20	0.18	**0.097**	0.041	0.037	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	ND	0.20	0.13	ND	0.050	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.037	0.027	
71-43-2	Benzene	**3.3**	0.20	0.16	**1.0**	0.063	0.050	
56-23-5	Carbon Tetrachloride	**0.37**	0.20	0.17	**0.058**	0.032	0.028	
110-82-7	Cyclohexane	**0.59**	2.0	0.59	**0.17**	0.59	0.17	**J**
78-87-5	1,2-Dichloropropane	ND	0.20	0.17	ND	0.044	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.14	ND	0.030	0.021	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.038	0.033	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.090	
80-62-6	Methyl Methacrylate	ND	2.0	0.63	ND	0.49	0.15	
142-82-5	n-Heptane	**1.1**	1.0	0.34	**0.26**	0.25	0.084	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	**0.46**	1.0	0.32	**0.11**	0.25	0.079	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.037	0.030	
108-88-3	Toluene	**15**	1.0	0.34	**4.1**	0.27	0.091	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.25	0.079	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**4.5**	1.0	0.32	**0.95**	0.21	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC00897

Date Collected: 4/8/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.74

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.47**	1.0	0.36	**0.10**	0.22	0.078	**J**
127-18-4	Tetrachloroethene	ND	0.20	0.15	ND	0.030	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.17	ND	0.044	0.036	
100-41-4	Ethylbenzene	**2.3**	1.0	0.32	**0.54**	0.23	0.074	
179601-23-1	m,p-Xylenes	**8.1**	1.0	0.59	**1.9**	0.23	0.13	
75-25-2	Bromoform	ND	1.0	0.30	ND	0.098	0.029	
100-42-5	Styrene	**0.81**	1.0	0.30	**0.19**	0.24	0.071	**J**
95-47-6	o-Xylene	**2.8**	1.0	0.30	**0.65**	0.23	0.070	
111-84-2	n-Nonane	ND	1.0	0.30	ND	0.19	0.058	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.025	
98-82-8	Cumene	ND	1.0	0.30	ND	0.21	0.062	
80-56-8	alpha-Pinene	**3.5**	1.0	0.28	**0.64**	0.18	0.051	
103-65-1	n-Propylbenzene	**0.37**	1.0	0.32	**0.075**	0.21	0.066	**J**
622-96-8	4-Ethyltoluene	**0.60**	1.0	0.32	**0.12**	0.21	0.066	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.50**	1.0	0.32	**0.10**	0.21	0.066	**J**
95-63-6	1,2,4-Trimethylbenzene	**2.0**	1.0	0.30	**0.42**	0.21	0.062	
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.20	0.043	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.15	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.19	ND	0.034	0.031	
5989-27-5	d-Limonene	**22**	1.0	0.28	**3.9**	0.18	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.10	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.36	ND	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.095	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/8/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AC00897		

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.74

Canister Dilution Factor: 2.02

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.72	Norflurane	**54**	
12.68	1-Butanol	**86**	
19.77	unknown hydrocarbon	**180**	
19.91	unknown hydrocarbon	**22**	
19.97	unknown hydrocarbon	**63**	
20.01	unknown	**29**	
20.24	unknown hydrocarbon	**50**	
20.26	unknown hydrocarbon	**22**	
20.54	unknown hydrocarbon	**23**	
20.62	unknown hydrocarbon	**80**	
20.74	unknown hydrocarbon	**30**	
20.85	unknown hydrocarbon	**130**	
21.09	unknown hydrocarbon	**84**	
21.12	unknown hydrocarbon	**69**	
21.31	unknown hydrocarbon	**50**	
21.99	Unidentified Siloxane	**33**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00979

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.78 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.8**	0.67	0.19	**1.6**	0.39	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.67	0.23	**0.43**	0.13	0.046	
74-87-3	Chloromethane	**0.57**	0.27	0.19	**0.27**	0.13	0.090	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	0.25	ND	0.095	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.13	ND	0.052	0.049	
106-99-0	1,3-Butadiene	ND	0.27	0.19	ND	0.12	0.084	
74-83-9	Bromomethane	ND	0.27	0.12	ND	0.069	0.032	
75-00-3	Chloroethane	ND	0.27	0.12	ND	0.10	0.044	
64-17-5	Ethanol	**64**	6.7	1.1	**34**	3.5	0.56	
75-05-8	Acetonitrile	**0.43**	0.67	0.24	**0.26**	0.40	0.14	**J**
107-02-8	Acrolein	**2.6**	2.7	0.23	**1.1**	1.2	0.099	**J**
67-64-1	Acetone	**53**	6.7	1.0	**22**	2.8	0.43	
75-69-4	Trichlorofluoromethane	**2.9**	0.13	0.076	**0.51**	0.024	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**3.0**	6.7	0.56	**1.2**	2.7	0.23	**J**
107-13-1	Acrylonitrile	ND	0.67	0.23	ND	0.31	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-09-2	Methylene Chloride	**1.4**	0.67	0.23	**0.41**	0.19	0.065	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.043	0.032	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.13	0.11	**0.065**	0.017	0.014	
75-15-0	Carbon Disulfide	ND	6.7	0.20	ND	2.1	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
75-34-3	1,1-Dichloroethane	ND	0.13	0.11	ND	0.033	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.037	0.034	
108-05-4	Vinyl Acetate	ND	6.7	0.86	ND	1.9	0.25	
78-93-3	2-Butanone (MEK)	**14**	6.7	0.28	**4.8**	2.3	0.095	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00979

Date Collected: 4/8/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.78 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.034	0.031	
141-78-6	Ethyl Acetate	ND	1.3	0.47	ND	0.37	0.13	
110-54-3	n-Hexane	**7.5**	0.67	0.20	**2.1**	0.19	0.057	
67-66-3	Chloroform	**0.21**	0.13	0.12	**0.043**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	**39**	0.67	0.27	**13**	0.23	0.090	
107-06-2	1,2-Dichloroethane	**0.94**	0.13	0.082	**0.23**	0.033	0.020	
71-55-6	1,1,1-Trichloroethane	**0.14**	0.13	0.098	**0.026**	0.024	0.018	
71-43-2	Benzene	**5.0**	0.13	0.11	**1.6**	0.042	0.033	
56-23-5	Carbon Tetrachloride	**0.41**	0.13	0.11	**0.066**	0.021	0.018	
110-82-7	Cyclohexane	**2.4**	1.3	0.39	**0.71**	0.39	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.029	0.024	
75-27-4	Bromodichloromethane	ND	0.13	0.090	ND	0.020	0.014	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.025	0.022	
123-91-1	1,4-Dioxane	ND	0.67	0.21	ND	0.18	0.059	
80-62-6	Methyl Methacrylate	ND	1.3	0.41	ND	0.32	0.10	
142-82-5	n-Heptane	**4.7**	0.67	0.23	**1.1**	0.16	0.055	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	0.19	ND	0.15	0.041	
108-10-1	4-Methyl-2-pentanone	**0.27**	0.67	0.21	**0.065**	0.16	0.052	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	0.21	ND	0.15	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.11	ND	0.024	0.020	
108-88-3	Toluene	**27**	0.67	0.23	**7.2**	0.18	0.060	
591-78-6	2-Hexanone	ND	0.67	0.21	ND	0.16	0.052	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.016	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.015	
123-86-4	n-Butyl Acetate	**0.90**	0.67	0.21	**0.19**	0.14	0.045	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00979

Date Collected: 4/8/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.78 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.6**	0.67	0.24	**0.34**	0.14	0.051	
127-18-4	Tetrachloroethene	**1.1**	0.13	0.096	**0.16**	0.020	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.029	0.024	
100-41-4	Ethylbenzene	**4.5**	0.67	0.21	**1.0**	0.15	0.049	
179601-23-1	m,p-Xylenes	**17**	0.67	0.39	**3.8**	0.15	0.089	
75-25-2	Bromoform	ND	0.67	0.20	ND	0.064	0.019	
100-42-5	Styrene	**0.31**	0.67	0.20	**0.073**	0.16	0.047	**J**
95-47-6	o-Xylene	**5.1**	0.67	0.20	**1.2**	0.15	0.046	
111-84-2	n-Nonane	**0.76**	0.67	0.20	**0.15**	0.13	0.038	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.67	0.20	ND	0.14	0.041	
80-56-8	alpha-Pinene	**2.6**	0.67	0.19	**0.46**	0.12	0.033	
103-65-1	n-Propylbenzene	**0.92**	0.67	0.21	**0.19**	0.14	0.043	
622-96-8	4-Ethyltoluene	**1.5**	0.67	0.21	**0.31**	0.14	0.043	
108-67-8	1,3,5-Trimethylbenzene	**1.2**	0.67	0.21	**0.24**	0.14	0.043	
95-63-6	1,2,4-Trimethylbenzene	**4.7**	0.67	0.20	**0.95**	0.14	0.041	
100-44-7	Benzyl Chloride	ND	0.67	0.15	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.098	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.10	ND	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.021	
5989-27-5	d-Limonene	**2.8**	0.67	0.19	**0.50**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	0.13	ND	0.069	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.67	0.21	ND	0.090	0.029	
91-20-3	Naphthalene	**0.35**	0.67	0.24	**0.067**	0.13	0.046	**J**
87-68-3	Hexachlorobutadiene	ND	0.67	0.19	ND	0.062	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-004

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/8/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/10/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00979		

Initial Pressure (psig): -0.78 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.33

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
6.79	2-Methylbutane	**30**	
7.62	n-Pentane	**14**	
10.00	2-Methylpentane	**16**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01837

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.21 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**39**	0.63	0.18	**22**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.63	0.21	**0.39**	0.13	0.043	
74-87-3	Chloromethane	**0.56**	0.25	0.18	**0.27**	0.12	0.085	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	0.24	ND	0.090	0.034	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.049	0.047	
106-99-0	1,3-Butadiene	ND	0.25	0.18	ND	0.11	0.080	
74-83-9	Bromomethane	ND	0.25	0.12	ND	0.065	0.030	
75-00-3	Chloroethane	ND	0.25	0.11	ND	0.096	0.042	
64-17-5	Ethanol	**92**	6.3	1.0	**49**	3.3	0.54	
75-05-8	Acetonitrile	**0.28**	0.63	0.23	**0.17**	0.38	0.14	**J**
107-02-8	Acrolein	**1.9**	2.5	0.21	**0.83**	1.1	0.093	**J**
67-64-1	Acetone	**26**	6.3	0.97	**11**	2.7	0.41	
75-69-4	Trichlorofluoromethane	**1.1**	0.13	0.072	**0.20**	0.022	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**89**	6.3	0.53	**36**	2.6	0.22	
107-13-1	Acrylonitrile	ND	0.63	0.21	ND	0.29	0.099	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**2.6**	0.63	0.21	**0.75**	0.18	0.062	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.096	ND	0.040	0.031	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.13	0.10	**0.062**	0.016	0.013	
75-15-0	Carbon Disulfide	ND	6.3	0.19	ND	2.0	0.061	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.11	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.031	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.035	0.033	
108-05-4	Vinyl Acetate	ND	6.3	0.82	ND	1.8	0.23	
78-93-3	2-Butanone (MEK)	**1.7**	6.3	0.26	**0.57**	2.1	0.090	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P1601872-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01837

Date Collected: 4/8/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.21 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
141-78-6	Ethyl Acetate	**1.4**	1.3	0.44	**0.39**	0.35	0.12	
110-54-3	n-Hexane	**0.63**	0.63	0.19	**0.18**	0.18	0.054	**J**
67-66-3	Chloroform	**0.26**	0.13	0.11	**0.054**	0.026	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.63	0.25	ND	0.21	0.085	
107-06-2	1,2-Dichloroethane	**0.29**	0.13	0.078	**0.073**	0.031	0.019	
71-55-6	1,1,1-Trichloroethane	**2.1**	0.13	0.093	**0.39**	0.023	0.017	
71-43-2	Benzene	**0.63**	0.13	0.10	**0.20**	0.039	0.031	
56-23-5	Carbon Tetrachloride	**0.40**	0.13	0.11	**0.064**	0.020	0.017	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.10	ND	0.027	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.086	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.023	0.021	
123-91-1	1,4-Dioxane	ND	0.63	0.20	ND	0.17	0.056	
80-62-6	Methyl Methacrylate	ND	1.3	0.39	ND	0.31	0.095	
142-82-5	n-Heptane	**0.43**	0.63	0.21	**0.10**	0.15	0.052	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	**0.29**	0.63	0.20	**0.072**	0.15	0.049	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	0.20	ND	0.14	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.018	
108-88-3	Toluene	**1.8**	0.63	0.21	**0.47**	0.17	0.057	
591-78-6	2-Hexanone	ND	0.63	0.20	ND	0.15	0.049	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.016	0.014	
123-86-4	n-Butyl Acetate	**0.60**	0.63	0.20	**0.13**	0.13	0.042	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P1601872-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01837

Date Collected: 4/8/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.21 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.32**	0.63	0.23	**0.069**	0.13	0.049	**J**
127-18-4	Tetrachloroethene	**0.095**	0.13	0.091	**0.014**	0.019	0.013	**J**
108-90-7	Chlorobenzene	ND	0.13	0.10	ND	0.027	0.023	
100-41-4	Ethylbenzene	**0.41**	0.63	0.20	**0.095**	0.15	0.046	**J**
179601-23-1	m,p-Xylenes	**1.3**	0.63	0.37	**0.30**	0.15	0.084	
75-25-2	Bromoform	ND	0.63	0.19	ND	0.061	0.018	
100-42-5	Styrene	**0.26**	0.63	0.19	**0.060**	0.15	0.044	**J**
95-47-6	o-Xylene	**0.34**	0.63	0.19	**0.078**	0.15	0.044	**J**
111-84-2	n-Nonane	**0.21**	0.63	0.19	**0.040**	0.12	0.036	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.018	0.015	
98-82-8	Cumene	ND	0.63	0.19	ND	0.13	0.038	
80-56-8	alpha-Pinene	**1.6**	0.63	0.18	**0.29**	0.11	0.032	
103-65-1	n-Propylbenzene	ND	0.63	0.20	ND	0.13	0.041	
622-96-8	4-Ethyltoluene	ND	0.63	0.20	ND	0.13	0.041	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	0.20	ND	0.13	0.041	
95-63-6	1,2,4-Trimethylbenzene	**0.22**	0.63	0.19	**0.045**	0.13	0.038	**J**
100-44-7	Benzyl Chloride	ND	0.63	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.093	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	**36**	0.13	0.096	**6.1**	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.019	
5989-27-5	d-Limonene	**3.7**	0.63	0.18	**0.66**	0.11	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	0.12	ND	0.065	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	0.20	ND	0.085	0.027	
91-20-3	Naphthalene	ND	0.63	0.23	ND	0.12	0.043	
87-68-3	Hexachlorobutadiene	ND	0.63	0.18	ND	0.059	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160410-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P160412-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/12/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160412-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160412-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160412-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601872

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 4/8/16
Analyst: Evelyn Alvarez Date(s) Received: 4/8/16
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 4/10 - 4/12/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160410-MB	**98**	**100**	**98**	70-130	
	P160412-MB	**96**	**100**	**102**	70-130	
	P160410-LCS	**98**	**98**	**101**	70-130	
	P160412-LCS	**95**	**97**	**103**	70-130	
	P1601872-001	**97**	**99**	**100**	70-130	
	P1601872-002	**99**	**97**	**100**	70-130	
	P1601872-003	**98**	**98**	**101**	70-130	
	P1601872-004	**99**	**97**	**101**	70-130	
	P1601872-005	**98**	**99**	**102**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**183**	**92**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**158**	**77**	65-122	
75-01-4	Vinyl Chloride	200	**183**	**92**	65-128	
106-99-0	1,3-Butadiene	206	**205**	**100**	62-143	
74-83-9	Bromomethane	202	**179**	**89**	65-130	
75-00-3	Chloroethane	200	**181**	**91**	69-126	
64-17-5	Ethanol	998	**951**	**95**	57-126	
75-05-8	Acetonitrile	212	**199**	**94**	51-134	
107-02-8	Acrolein	214	**206**	**96**	55-146	
67-64-1	Acetone	1,080	**1090**	**101**	57-120	
75-69-4	Trichlorofluoromethane	216	**156**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**418**	**100**	59-129	
107-13-1	Acrylonitrile	212	**225**	**106**	64-136	
75-35-4	1,1-Dichloroethene	216	**198**	**92**	72-123	
75-09-2	Methylene Chloride	222	**185**	**83**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**220**	**101**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**189**	**86**	68-118	
75-15-0	Carbon Disulfide	210	**153**	**73**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**193**	**91**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**183**	**85**	55-128	
108-05-4	Vinyl Acetate	1,040	**1090**	**105**	66-140	
78-93-3	2-Butanone (MEK)	220	**232**	**105**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160410-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**214**	**98**	65-125	
141-78-6	Ethyl Acetate	428	**478**	**112**	64-132	
110-54-3	n-Hexane	212	**204**	**96**	58-126	
67-66-3	Chloroform	224	**195**	**87**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**199**	**90**	64-123	
107-06-2	1,2-Dichloroethane	214	**182**	**85**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**169**	**80**	68-120	
71-43-2	Benzene	226	**195**	**86**	61-110	
56-23-5	Carbon Tetrachloride	230	**177**	**77**	65-137	
110-82-7	Cyclohexane	424	**387**	**91**	68-122	
78-87-5	1,2-Dichloropropane	216	**206**	**95**	67-122	
75-27-4	Bromodichloromethane	218	**191**	**88**	71-124	
79-01-6	Trichloroethene	216	**174**	**81**	71-121	
123-91-1	1,4-Dioxane	210	**216**	**103**	67-122	
80-62-6	Methyl Methacrylate	422	**435**	**103**	76-130	
142-82-5	n-Heptane	216	**203**	**94**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**202**	**97**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**242**	**110**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**208**	**99**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**197**	**91**	73-121	
108-88-3	Toluene	218	**183**	**84**	67-117	
591-78-6	2-Hexanone	220	**232**	**105**	59-128	
124-48-1	Dibromochloromethane	220	**194**	**88**	73-132	
106-93-4	1,2-Dibromoethane	218	**200**	**92**	73-128	
123-86-4	n-Butyl Acetate	226	**246**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**198**	**94**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**185**	**84**	68-120	
100-41-4	Ethylbenzene	218	**191**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**381**	**89**	67-125	
75-25-2	Bromoform	228	**194**	**85**	68-153	
100-42-5	Styrene	222	**202**	**91**	68-132	
95-47-6	o-Xylene	210	**185**	**88**	67-124	
111-84-2	n-Nonane	204	**204**	**100**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**201**	**96**	72-128	
98-82-8	Cumene	208	**179**	**86**	67-124	
80-56-8	alpha-Pinene	212	**192**	**91**	67-129	
103-65-1	n-Propylbenzene	204	**185**	**91**	67-125	
622-96-8	4-Ethyltoluene	214	**187**	**87**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**185**	**86**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**196**	**90**	62-134	
100-44-7	Benzyl Chloride	220	**197**	**90**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**197**	**86**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**186**	**89**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**190**	**86**	62-134	
5989-27-5	d-Limonene	210	**211**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**178**	**82**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**175**	**76**	60-145	
91-20-3	Naphthalene	218	**163**	**75**	56-158	
87-68-3	Hexachlorobutadiene	230	**174**	**76**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P160412-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/12/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**155**	**79**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**139**	**74**	65-117	
74-87-3	Chloromethane	200	**172**	**86**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**151**	**74**	65-122	
75-01-4	Vinyl Chloride	200	**165**	**83**	65-128	
106-99-0	1,3-Butadiene	206	**180**	**87**	62-143	
74-83-9	Bromomethane	202	**166**	**82**	65-130	
75-00-3	Chloroethane	200	**165**	**83**	69-126	
64-17-5	Ethanol	998	**844**	**85**	57-126	
75-05-8	Acetonitrile	212	**174**	**82**	51-134	
107-02-8	Acrolein	214	**187**	**87**	55-146	
67-64-1	Acetone	1,080	**973**	**90**	57-120	
75-69-4	Trichlorofluoromethane	216	**147**	**68**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**373**	**89**	59-129	
107-13-1	Acrylonitrile	212	**201**	**95**	64-136	
75-35-4	1,1-Dichloroethene	216	**185**	**86**	72-123	
75-09-2	Methylene Chloride	222	**170**	**77**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**194**	**89**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**180**	**82**	68-118	
75-15-0	Carbon Disulfide	210	**143**	**68**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**194**	**92**	69-129	
75-34-3	1,1-Dichloroethane	212	**176**	**83**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**170**	**79**	55-128	
108-05-4	Vinyl Acetate	1,040	**1000**	**96**	66-140	
78-93-3	2-Butanone (MEK)	220	**209**	**95**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872

ALS Sample ID: P160412-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/12/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**194**	**89**	65-125	
141-78-6	Ethyl Acetate	428	**425**	**99**	64-132	
110-54-3	n-Hexane	212	**183**	**86**	58-126	
67-66-3	Chloroform	224	**179**	**80**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**182**	**83**	64-123	
107-06-2	1,2-Dichloroethane	214	**168**	**79**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**162**	**77**	68-120	
71-43-2	Benzene	226	**179**	**79**	61-110	
56-23-5	Carbon Tetrachloride	230	**170**	**74**	65-137	
110-82-7	Cyclohexane	424	**361**	**85**	68-122	
78-87-5	1,2-Dichloropropane	216	**189**	**88**	67-122	
75-27-4	Bromodichloromethane	218	**181**	**83**	71-124	
79-01-6	Trichloroethene	216	**166**	**77**	71-121	
123-91-1	1,4-Dioxane	210	**202**	**96**	67-122	
80-62-6	Methyl Methacrylate	422	**409**	**97**	76-130	
142-82-5	n-Heptane	216	**188**	**87**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**188**	**90**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**220**	**100**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**195**	**93**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**185**	**86**	73-121	
108-88-3	Toluene	218	**172**	**79**	67-117	
591-78-6	2-Hexanone	220	**208**	**95**	59-128	
124-48-1	Dibromochloromethane	220	**186**	**85**	73-132	
106-93-4	1,2-Dibromoethane	218	**190**	**87**	73-128	
123-86-4	n-Butyl Acetate	226	**220**	**97**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601872
ALS Sample ID: P160412-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/12/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**182**	**87**	67-124	
127-18-4	Tetrachloroethene	202	**169**	**84**	65-126	
108-90-7	Chlorobenzene	220	**176**	**80**	68-120	
100-41-4	Ethylbenzene	218	**178**	**82**	69-123	
179601-23-1	m,p-Xylenes	428	**355**	**83**	67-125	
75-25-2	Bromoform	228	**187**	**82**	68-153	
100-42-5	Styrene	222	**190**	**86**	68-132	
95-47-6	o-Xylene	210	**173**	**82**	67-124	
111-84-2	n-Nonane	204	**181**	**89**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**186**	**89**	72-128	
98-82-8	Cumene	208	**168**	**81**	67-124	
80-56-8	alpha-Pinene	212	**179**	**84**	67-129	
103-65-1	n-Propylbenzene	204	**171**	**84**	67-125	
622-96-8	4-Ethyltoluene	214	**184**	**86**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**172**	**80**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**181**	**83**	62-134	
100-44-7	Benzyl Chloride	220	**181**	**82**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**185**	**81**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**175**	**84**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**178**	**81**	62-134	
5989-27-5	d-Limonene	210	**190**	**90**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**170**	**78**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**167**	**73**	60-145	
91-20-3	Naphthalene	218	**152**	**70**	56-158	
87-68-3	Hexachlorobutadiene	230	**167**	**73**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 12, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 8, 2016. For your reference, these analyses have been assigned our service request number P1601873.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 3:42 pm, Apr 12, 2016

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601873
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 8, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

One of the containers was batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601873
Project ID: Aliso Canyon / 603287048

Date Received: 4/8/2016
Time Received: 15:10

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601873-001	Air	4/6/2016	08:40	AC02071	-0.45	3.92	X
P1601873-002	Air	4/6/2016	08:40	AC00985	-0.42	3.64	X
P1601873-003	Air	4/6/2016	09:11	CC00191	-5.92	3.72	X
P1601873-004	Air	4/6/2016	10:07	AS00609	-4.63	4.65	X
P1601873-005	Air	4/6/2016	12:48	AS01039	-6.03	3.90	X
P1601873-006	Air	4/6/2016	13:58	AS00730	-4.06	3.80	X
P1601873-007	Air	4/6/2016	15:55	AC01109	-5.68	3.83	X
P1601873-008	Air	4/6/2016	16:07	AC02102	-5.99	3.92	X

P16 01873

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4-6-16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano

Rotameter: —

Serial # : —

Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75	-29 SZ Avg:						~~Kitchen~~ SZ 002749
21-SU-			-31 Avg:	-2	0901	0840	1419	—	Kitchen N0042 Island Top
21-SU-D-G			-29 Avg:	-0	0901	0840	1419	—	Kitchen 002749 Island Top
118-SU-			-30 Avg:	-13	0940	0911	1411	—	Foyer 1378 Top of Cabinet
50-SU-	↓	↓	-28 Avg:	-9	1032	1007	1415	—	Kitchen Counter Strong Pine Sol SN 15906 ~~scent~~ ~~of~~ ~~the~~ Apt

(1) (2) (3) (4) 5 of 51

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/7/16	Time: 1449	Received by:	Date: 4/7/16	Time: 1651
Relinquished by:	Date: 4/7/16	Time: 1683	Received by:	Date: 4/8/16	Time: 947
Relinquished by:	Date:	Time:	Received by:	Date: 4/8/16	Time: 1170

P1601873

Page 2 of 2

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-6-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: — Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							R0609 SZ
(5) 28-SU									Kitchen Island
6 of 51-8			-32	-13					
			Avg:		1317	1248	1411	—	R0609
41-SU		-28	-29 -26	-05	1437	1358			Kitchen Island
			Avg:				1419	—	
(7) 102-SU			-30	-09					16957
			Avg:		1620	1555	1415	—	Bedroom on Dresser
(8) 102-SU-EXT			-30	-12	1630	1607			002895
			Avg:				1417	—	Kitchen Island
									N0396 Backyard ext. Rain Started @1400

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/7/16	Time: 1449	Received by:	Date: 4/7/2016	Time: 1652
Relinquished by:	Date: 4/7/16	Time: 1453	Received by:	Date: 4/8/16	Time: 947
Relinquished by:	Date:	Time:	Received by:	Date: 4/8/16	Time: 1570

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601873

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/8/16 Date opened: 4/8/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601873-001.01	6.0 L Ambient Can					
P1601873-002.01	6.0 L Ambient Can					
P1601873-003.01	Canister					
P1601873-004.01	6.0 L Silonite Can					
P1601873-005.01	6.0 L Silonite Can					
P1601873-006.01	6.0 L Silonite Can					
P1601873-007.01	6.0 L Ambient Can					
P1601873-008.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02071

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11 - 4/12/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.45 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**6.5**	0.66	0.18	**3.8**	0.38	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	0.66	0.22	**0.37**	0.13	0.045	
74-87-3	Chloromethane	**0.28**	0.26	0.18	**0.14**	0.13	0.089	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	0.25	ND	0.094	0.036	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.051	0.049	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.083	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.068	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.099	0.043	
64-17-5	Ethanol	**2,100**	66	10	**1,100**	35	5.6	**D**
75-05-8	Acetonitrile	**0.56**	0.66	0.24	**0.34**	0.39	0.14	**J**
107-02-8	Acrolein	**3.0**	2.6	0.22	**1.3**	1.1	0.097	
67-64-1	Acetone	**74**	6.6	1.0	**31**	2.8	0.42	
75-69-4	Trichlorofluoromethane	**0.98**	0.13	0.075	**0.18**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.6**	6.6	0.55	**2.7**	2.7	0.22	
107-13-1	Acrylonitrile	**0.27**	0.66	0.22	**0.13**	0.30	0.10	**J**
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.031	
75-09-2	Methylene Chloride	**280**	6.6	2.2	**79**	1.9	0.64	**B, D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.10	ND	0.042	0.032	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.13	0.10	**0.060**	0.017	0.014	
75-15-0	Carbon Disulfide	ND	6.6	0.20	ND	2.1	0.063	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.034	
108-05-4	Vinyl Acetate	**3.7**	6.6	0.85	**1.1**	1.9	0.24	**J**
78-93-3	2-Butanone (MEK)	**5.2**	6.6	0.28	**1.8**	2.2	0.093	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02071

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11 - 4/12/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.45 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	**17**	1.3	0.46	**4.6**	0.36	0.13	
110-54-3	n-Hexane	**0.96**	0.66	0.20	**0.27**	0.19	0.056	
67-66-3	Chloroform	**0.31**	0.13	0.12	**0.063**	0.027	0.024	
109-99-9	Tetrahydrofuran (THF)	**0.28**	0.66	0.26	**0.093**	0.22	0.089	**J**
107-06-2	1,2-Dichloroethane	**5.2**	0.13	0.081	**1.3**	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.097	ND	0.024	0.018	
71-43-2	Benzene	**0.73**	0.13	0.10	**0.23**	0.041	0.032	
56-23-5	Carbon Tetrachloride	**0.44**	0.13	0.11	**0.071**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.38	ND	0.38	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.024	
75-27-4	Bromodichloromethane	**0.16**	0.13	0.089	**0.024**	0.020	0.013	
79-01-6	Trichloroethene	ND	0.13	0.12	ND	0.024	0.022	
123-91-1	1,4-Dioxane	ND	0.66	0.21	ND	0.18	0.058	
80-62-6	Methyl Methacrylate	ND	1.3	0.41	ND	0.32	0.099	
142-82-5	n-Heptane	**0.61**	0.66	0.22	**0.15**	0.16	0.054	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	**0.38**	0.66	0.21	**0.092**	0.16	0.051	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	0.21	ND	0.14	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	**6.3**	0.66	0.22	**1.7**	0.17	0.059	
591-78-6	2-Hexanone	**0.56**	0.66	0.21	**0.14**	0.16	0.051	**J**
124-48-1	Dibromochloromethane	**0.28**	0.13	0.11	**0.032**	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**2.2**	0.66	0.21	**0.47**	0.14	0.044	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02071

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11 - 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.45 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.29**	0.66	0.24	**0.063**	0.14	0.050	**J**
127-18-4	Tetrachloroethene	**1.5**	0.13	0.094	**0.22**	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.024	
100-41-4	Ethylbenzene	**1.2**	0.66	0.21	**0.28**	0.15	0.048	
179601-23-1	m,p-Xylenes	**1.8**	0.66	0.38	**0.42**	0.15	0.087	
75-25-2	Bromoform	**0.30**	0.66	0.20	**0.029**	0.063	0.019	**J**
100-42-5	Styrene	ND	0.66	0.20	ND	0.15	0.046	
95-47-6	o-Xylene	**0.65**	0.66	0.20	**0.15**	0.15	0.045	**J**
111-84-2	n-Nonane	**0.22**	0.66	0.20	**0.042**	0.12	0.037	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.66	0.20	ND	0.13	0.040	
80-56-8	alpha-Pinene	**3.9**	0.66	0.18	**0.70**	0.12	0.033	
103-65-1	n-Propylbenzene	ND	0.66	0.21	ND	0.13	0.043	
622-96-8	4-Ethyltoluene	ND	0.66	0.21	ND	0.13	0.043	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	0.21	ND	0.13	0.043	
95-63-6	1,2,4-Trimethylbenzene	ND	0.66	0.20	ND	0.13	0.040	
100-44-7	Benzyl Chloride	ND	0.66	0.14	ND	0.13	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.097	ND	0.022	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.10	ND	0.022	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.022	0.020	
5989-27-5	d-Limonene	**13**	0.66	0.18	**2.3**	0.12	0.033	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.66	0.13	ND	0.068	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.66	0.21	ND	0.088	0.028	
91-20-3	Naphthalene	ND	0.66	0.24	ND	0.13	0.045	
87-68-3	Hexachlorobutadiene	ND	0.66	0.18	ND	0.061	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/8/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/11 - 4/12/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	AC02071		

Initial Pressure (psig): -0.45 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.31

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.07	1,1-Difluoroethane	**330**	
4.20	Propane	**75**	
5.42	n-Butane	**350**	
21.89	unknown siloxane	**26**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC00985

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11 - 4/12/16
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.42 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.7**	0.64	0.18	**1.6**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	0.64	0.22	**0.36**	0.13	0.044	
74-87-3	Chloromethane	**0.27**	0.26	0.18	**0.13**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	0.24	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.081	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.097	0.042	
64-17-5	Ethanol	**1,500**	64	10	**820**	34	5.4	**D**
75-05-8	Acetonitrile	**0.42**	0.64	0.23	**0.25**	0.38	0.14	**J**
107-02-8	Acrolein	**2.0**	2.6	0.22	**0.89**	1.1	0.095	**J**
67-64-1	Acetone	**51**	6.4	0.99	**21**	2.7	0.42	
75-69-4	Trichlorofluoromethane	**0.96**	0.13	0.073	**0.17**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**2.6**	6.4	0.54	**1.1**	2.6	0.22	**J**
107-13-1	Acrylonitrile	**0.26**	0.64	0.22	**0.12**	0.30	0.10	**J**
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
75-09-2	Methylene Chloride	**420**	6.4	2.2	**120**	1.8	0.63	**B, D**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.097	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.13	0.10	**0.061**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.4	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.029	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	**2.2**	6.4	0.83	**0.62**	1.8	0.24	**J**
78-93-3	2-Butanone (MEK)	**4.7**	6.4	0.27	**1.6**	2.2	0.091	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.
D = The reported result is from a dilution.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC00985

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11 - 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.42 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.032	0.030	
141-78-6	Ethyl Acetate	**14**	1.3	0.45	**3.9**	0.36	0.12	
110-54-3	n-Hexane	**0.83**	0.64	0.19	**0.24**	0.18	0.054	
67-66-3	Chloroform	**0.22**	0.13	0.11	**0.046**	0.026	0.023	
109-99-9	Tetrahydrofuran (THF)	**0.27**	0.64	0.26	**0.092**	0.22	0.087	**J**
107-06-2	1,2-Dichloroethane	**4.2**	0.13	0.079	**1.0**	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.023	0.017	
71-43-2	Benzene	**0.71**	0.13	0.10	**0.22**	0.040	0.032	
56-23-5	Carbon Tetrachloride	**0.42**	0.13	0.11	**0.067**	0.020	0.018	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	**0.16**	0.13	0.087	**0.024**	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.64	0.20	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.31	0.097	
142-82-5	n-Heptane	**0.50**	0.64	0.22	**0.12**	0.16	0.053	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	0.18	ND	0.14	0.039	
108-10-1	4-Methyl-2-pentanone	**0.45**	0.64	0.20	**0.11**	0.16	0.050	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	0.20	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.023	0.019	
108-88-3	Toluene	**7.3**	0.64	0.22	**2.0**	0.17	0.058	
591-78-6	2-Hexanone	**0.36**	0.64	0.20	**0.088**	0.16	0.050	**J**
124-48-1	Dibromochloromethane	**0.28**	0.13	0.11	**0.033**	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**1.9**	0.64	0.20	**0.40**	0.13	0.043	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC00985

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11 - 4/12/16

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.42 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.27**	0.64	0.23	**0.058**	0.14	0.049	**J**
127-18-4	Tetrachloroethene	ND	0.13	0.092	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	**1.5**	0.64	0.20	**0.35**	0.15	0.047	
179601-23-1	m,p-Xylenes	**3.4**	0.64	0.37	**0.77**	0.15	0.085	
75-25-2	Bromoform	**0.48**	0.64	0.19	**0.046**	0.062	0.019	**J**
100-42-5	Styrene	**0.95**	0.64	0.19	**0.22**	0.15	0.045	
95-47-6	o-Xylene	**1.3**	0.64	0.19	**0.29**	0.15	0.044	
111-84-2	n-Nonane	**0.26**	0.64	0.19	**0.049**	0.12	0.037	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.64	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**3.3**	0.64	0.18	**0.59**	0.11	0.032	
103-65-1	n-Propylbenzene	ND	0.64	0.20	ND	0.13	0.042	
622-96-8	4-Ethyltoluene	**0.27**	0.64	0.20	**0.054**	0.13	0.042	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.35**	0.64	0.20	**0.070**	0.13	0.042	**J**
95-63-6	1,2,4-Trimethylbenzene	**1.4**	0.64	0.19	**0.29**	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.64	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	**0.12**	0.13	0.097	**0.019**	0.021	0.016	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	**29**	0.64	0.18	**5.1**	0.11	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	0.13	ND	0.066	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.20	ND	0.086	0.028	
91-20-3	Naphthalene	**0.61**	0.64	0.23	**0.12**	0.12	0.044	**J**
87-68-3	Hexachlorobutadiene	ND	0.64	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/8/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/11 - 4/12/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		0.10 Liter(s)
Container ID:	AC00985		

Initial Pressure (psig): -0.42 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.28

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.05	1,1-Difluoroethane	**210**	
5.41	n-Butane	**350**	
21.89	unknown siloxane	**54**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00191

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.92 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.1**	1.1	0.29	**0.67**	0.61	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**3.6**	1.1	0.36	**0.72**	0.21	0.072	
74-87-3	Chloromethane	**0.35**	0.42	0.29	**0.17**	0.20	0.14	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.40	ND	0.15	0.057	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.082	0.078	
106-99-0	1,3-Butadiene	ND	0.42	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.42	0.20	ND	0.11	0.050	
75-00-3	Chloroethane	ND	0.42	0.18	ND	0.16	0.069	
64-17-5	Ethanol	**32**	11	1.7	**17**	5.6	0.89	
75-05-8	Acetonitrile	**15**	1.1	0.38	**8.7**	0.63	0.23	
107-02-8	Acrolein	**1.9**	4.2	0.36	**0.84**	1.8	0.16	**J**
67-64-1	Acetone	**28**	11	1.6	**12**	4.4	0.68	
75-69-4	Trichlorofluoromethane	**1.9**	0.21	0.12	**0.34**	0.037	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**0.99**	11	0.88	**0.40**	4.3	0.36	**J**
107-13-1	Acrylonitrile	ND	1.1	0.36	ND	0.48	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.20	ND	0.053	0.049	
75-09-2	Methylene Chloride	**21**	1.1	0.36	**6.0**	0.30	0.10	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.067	0.051	
76-13-1	Trichlorotrifluoroethane	**0.94**	0.21	0.17	**0.12**	0.027	0.022	
75-15-0	Carbon Disulfide	**3.5**	11	0.32	**1.1**	3.4	0.10	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.048	
75-34-3	1,1-Dichloroethane	ND	0.21	0.17	ND	0.052	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.20	ND	0.058	0.054	
108-05-4	Vinyl Acetate	**1.7**	11	1.4	**0.49**	3.0	0.39	**J**
78-93-3	2-Butanone (MEK)	**2.1**	11	0.44	**0.72**	3.6	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Container ID: CC00191

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.92 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.053	0.049	
141-78-6	Ethyl Acetate	**12**	2.1	0.74	**3.2**	0.58	0.20	
110-54-3	n-Hexane	**13**	1.1	0.32	**3.7**	0.30	0.089	
67-66-3	Chloroform	ND	0.21	0.19	ND	0.043	0.038	
109-99-9	Tetrahydrofuran (THF)	**3.2**	1.1	0.42	**1.1**	0.36	0.14	
107-06-2	1,2-Dichloroethane	**0.19**	0.21	0.13	**0.047**	0.052	0.032	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.16	ND	0.039	0.028	
71-43-2	Benzene	**0.56**	0.21	0.17	**0.18**	0.066	0.052	
56-23-5	Carbon Tetrachloride	**0.80**	0.21	0.18	**0.13**	0.033	0.029	
110-82-7	Cyclohexane	ND	2.1	0.61	ND	0.61	0.18	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.045	0.038	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.19	ND	0.039	0.035	
123-91-1	1,4-Dioxane	ND	1.1	0.34	ND	0.29	0.093	
80-62-6	Methyl Methacrylate	ND	2.1	0.65	ND	0.51	0.16	
142-82-5	n-Heptane	ND	1.1	0.36	ND	0.26	0.087	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.29	ND	0.23	0.065	
108-10-1	4-Methyl-2-pentanone	**0.88**	1.1	0.34	**0.22**	0.26	0.082	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.34	ND	0.23	0.074	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.039	0.031	
108-88-3	Toluene	**43**	1.1	0.36	**11**	0.28	0.095	
591-78-6	2-Hexanone	ND	1.1	0.34	ND	0.26	0.082	
124-48-1	Dibromochloromethane	ND	0.21	0.18	ND	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**0.69**	1.1	0.34	**0.15**	0.22	0.071	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:
Container ID: CC00191

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.92 Final Pressure (psig): 3.72

Canister Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.38	ND	0.22	0.081	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.046	0.038	
100-41-4	Ethylbenzene	ND	1.1	0.34	ND	0.24	0.077	
179601-23-1	m,p-Xylenes	**0.98**	1.1	0.61	**0.23**	0.24	0.14	**J**
75-25-2	Bromoform	ND	1.1	0.32	ND	0.10	0.030	
100-42-5	Styrene	ND	1.1	0.32	ND	0.25	0.074	
95-47-6	o-Xylene	**0.34**	1.1	0.32	**0.077**	0.24	0.073	**J**
111-84-2	n-Nonane	**0.37**	1.1	0.32	**0.070**	0.20	0.060	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.18	ND	0.031	0.026	
98-82-8	Cumene	ND	1.1	0.32	ND	0.21	0.064	
80-56-8	alpha-Pinene	**1.1**	1.1	0.29	**0.20**	0.19	0.053	
103-65-1	n-Propylbenzene	ND	1.1	0.34	ND	0.21	0.068	
622-96-8	4-Ethyltoluene	ND	1.1	0.34	ND	0.21	0.068	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.34	ND	0.21	0.068	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	0.32	ND	0.21	0.064	
100-44-7	Benzyl Chloride	ND	1.1	0.23	ND	0.20	0.045	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.035	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.20	ND	0.035	0.032	
5989-27-5	d-Limonene	**2.8**	1.1	0.29	**0.50**	0.19	0.053	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.045	
91-20-3	Naphthalene	ND	1.1	0.38	ND	0.20	0.072	
87-68-3	Hexachlorobutadiene	ND	1.1	0.29	ND	0.098	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00609

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.63 Final Pressure (psig): 4.65

Canister Dilution Factor: 1.92

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**44**	0.96	0.27	**25**	0.56	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.96	0.33	**0.39**	0.19	0.066	
74-87-3	Chloromethane	ND	0.38	0.27	ND	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	0.36	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.075	0.071	
106-99-0	1,3-Butadiene	ND	0.38	0.27	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.18	ND	0.099	0.046	
75-00-3	Chloroethane	ND	0.38	0.17	ND	0.15	0.063	
64-17-5	Ethanol	**220**	9.6	1.5	**120**	5.1	0.82	
75-05-8	Acetonitrile	**0.41**	0.96	0.35	**0.25**	0.57	0.21	**J**
107-02-8	Acrolein	**3.2**	3.8	0.33	**1.4**	1.7	0.14	**J**
67-64-1	Acetone	**76**	9.6	1.5	**32**	4.0	0.62	
75-69-4	Trichlorofluoromethane	**0.99**	0.19	0.11	**0.18**	0.034	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**50**	9.6	0.81	**20**	3.9	0.33	
107-13-1	Acrylonitrile	ND	0.96	0.33	ND	0.44	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
75-09-2	Methylene Chloride	**450**	0.96	0.33	**130**	0.28	0.094	**B, E**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.15	ND	0.061	0.047	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.19	0.15	**0.063**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.6	0.29	ND	3.1	0.093	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.048	0.044	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.047	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.18	ND	0.053	0.050	
108-05-4	Vinyl Acetate	**3.0**	9.6	1.2	**0.84**	2.7	0.35	**J**
78-93-3	2-Butanone (MEK)	**2.3**	9.6	0.40	**0.77**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.
E = Estimated; concentration exceeded calibration range.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00609

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.63 Final Pressure (psig): 4.65

Canister Dilution Factor: 1.92

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.18	ND	0.048	0.045	
141-78-6	Ethyl Acetate	**12**	1.9	0.67	**3.2**	0.53	0.19	
110-54-3	n-Hexane	**0.36**	0.96	0.29	**0.10**	0.27	0.082	**J**
67-66-3	Chloroform	**0.61**	0.19	0.17	**0.13**	0.039	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.96	0.38	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	**0.23**	0.19	0.12	**0.058**	0.047	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.035	0.026	
71-43-2	Benzene	**0.58**	0.19	0.15	**0.18**	0.060	0.047	
56-23-5	Carbon Tetrachloride	**0.74**	0.19	0.17	**0.12**	0.031	0.026	
110-82-7	Cyclohexane	ND	1.9	0.56	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.042	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.029	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.96	0.31	ND	0.27	0.085	
80-62-6	Methyl Methacrylate	ND	1.9	0.60	ND	0.47	0.15	
142-82-5	n-Heptane	**2.3**	0.96	0.33	**0.56**	0.23	0.080	
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.27	ND	0.21	0.059	
108-10-1	4-Methyl-2-pentanone	ND	0.96	0.31	ND	0.23	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.035	0.028	
108-88-3	Toluene	**2.8**	0.96	0.33	**0.74**	0.25	0.087	
591-78-6	2-Hexanone	ND	0.96	0.31	ND	0.23	0.075	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.025	0.021	
123-86-4	n-Butyl Acetate	**0.46**	0.96	0.31	**0.097**	0.20	0.065	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00609

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.63 Final Pressure (psig): 4.65

Canister Dilution Factor: 1.92

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**1.1**	0.96	0.35	**0.24**	0.21	0.074	
127-18-4	Tetrachloroethene	**0.18**	0.19	0.14	**0.027**	0.028	0.020	**J**
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	**0.32**	0.96	0.31	**0.073**	0.22	0.071	**J**
179601-23-1	m,p-Xylenes	**1.4**	0.96	0.56	**0.33**	0.22	0.13	
75-25-2	Bromoform	ND	0.96	0.29	ND	0.093	0.028	
100-42-5	Styrene	**1.1**	0.96	0.29	**0.26**	0.23	0.068	
95-47-6	o-Xylene	**0.40**	0.96	0.29	**0.092**	0.22	0.066	**J**
111-84-2	n-Nonane	**1.5**	0.96	0.29	**0.29**	0.18	0.055	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.028	0.023	
98-82-8	Cumene	ND	0.96	0.29	ND	0.20	0.059	
80-56-8	alpha-Pinene	**14**	0.96	0.27	**2.4**	0.17	0.048	
103-65-1	n-Propylbenzene	ND	0.96	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.96	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	ND	0.96	0.29	ND	0.20	0.059	
100-44-7	Benzyl Chloride	ND	0.96	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	**0.81**	0.19	0.15	**0.13**	0.032	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	**6.3**	0.96	0.27	**1.1**	0.17	0.048	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.96	0.19	ND	0.099	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	0.31	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.96	0.35	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.96	0.27	ND	0.090	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01039

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.15

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.6**	1.1	0.30	**2.7**	0.62	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.37	**0.37**	0.22	0.074	
74-87-3	Chloromethane	ND	0.43	0.30	ND	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.15	0.058	
75-01-4	Vinyl Chloride	ND	0.22	0.20	ND	0.084	0.080	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.19	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.052	
75-00-3	Chloroethane	ND	0.43	0.19	ND	0.16	0.071	
64-17-5	Ethanol	**310**	11	1.7	**160**	5.7	0.91	
75-05-8	Acetonitrile	**0.40**	1.1	0.39	**0.24**	0.64	0.23	**J**
107-02-8	Acrolein	**2.1**	4.3	0.37	**0.90**	1.9	0.16	**J**
67-64-1	Acetone	**42**	11	1.7	**18**	4.5	0.70	
75-69-4	Trichlorofluoromethane	**0.99**	0.22	0.12	**0.18**	0.038	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.3**	11	0.90	**1.7**	4.4	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.37	ND	0.50	0.17	
75-35-4	1,1-Dichloroethene	ND	0.22	0.20	ND	0.054	0.050	
75-09-2	Methylene Chloride	**42**	1.1	0.37	**12**	0.31	0.11	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.16	ND	0.069	0.052	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.22	0.17	**0.062**	0.028	0.022	
75-15-0	Carbon Disulfide	**0.42**	11	0.32	**0.14**	3.5	0.10	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.054	0.049	
75-34-3	1,1-Dichloroethane	ND	0.22	0.17	ND	0.053	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.20	ND	0.060	0.055	
108-05-4	Vinyl Acetate	**2.2**	11	1.4	**0.61**	3.1	0.40	**J**
78-93-3	2-Butanone (MEK)	**2.2**	11	0.45	**0.74**	3.6	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01039

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.15

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.20	ND	0.054	0.050	
141-78-6	Ethyl Acetate	**15**	2.2	0.75	**4.2**	0.60	0.21	
110-54-3	n-Hexane	**0.41**	1.1	0.32	**0.12**	0.31	0.092	**J**
67-66-3	Chloroform	**0.60**	0.22	0.19	**0.12**	0.044	0.039	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.43	ND	0.36	0.15	
107-06-2	1,2-Dichloroethane	**0.34**	0.22	0.13	**0.084**	0.053	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.16	ND	0.039	0.029	
71-43-2	Benzene	**0.79**	0.22	0.17	**0.25**	0.067	0.053	
56-23-5	Carbon Tetrachloride	**0.41**	0.22	0.18	**0.065**	0.034	0.029	
110-82-7	Cyclohexane	ND	2.2	0.62	ND	0.62	0.18	
78-87-5	1,2-Dichloropropane	ND	0.22	0.18	ND	0.047	0.039	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.22	0.19	ND	0.040	0.036	
123-91-1	1,4-Dioxane	ND	1.1	0.34	ND	0.30	0.095	
80-62-6	Methyl Methacrylate	ND	2.2	0.67	ND	0.53	0.16	
142-82-5	n-Heptane	ND	1.1	0.37	ND	0.26	0.089	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.066	
108-10-1	4-Methyl-2-pentanone	**0.90**	1.1	0.34	**0.22**	0.26	0.084	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.34	ND	0.24	0.076	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.17	ND	0.039	0.032	
108-88-3	Toluene	**3.0**	1.1	0.37	**0.81**	0.29	0.097	
591-78-6	2-Hexanone	ND	1.1	0.34	ND	0.26	0.084	
124-48-1	Dibromochloromethane	**0.30**	0.22	0.18	**0.035**	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.22	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	**2.3**	1.1	0.34	**0.48**	0.23	0.072	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01039

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.15

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.083	
127-18-4	Tetrachloroethene	ND	0.22	0.15	ND	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.22	0.18	ND	0.047	0.039	
100-41-4	Ethylbenzene	**0.55**	1.1	0.34	**0.13**	0.25	0.079	**J**
179601-23-1	m,p-Xylenes	**1.2**	1.1	0.62	**0.27**	0.25	0.14	
75-25-2	Bromoform	**0.35**	1.1	0.32	**0.034**	0.10	0.031	**J**
100-42-5	Styrene	**1.0**	1.1	0.32	**0.24**	0.25	0.076	**J**
95-47-6	o-Xylene	**0.45**	1.1	0.32	**0.10**	0.25	0.074	**J**
111-84-2	n-Nonane	**0.32**	1.1	0.32	**0.062**	0.21	0.062	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.18	ND	0.031	0.026	
98-82-8	Cumene	ND	1.1	0.32	ND	0.22	0.066	
80-56-8	alpha-Pinene	**6.8**	1.1	0.30	**1.2**	0.19	0.054	
103-65-1	n-Propylbenzene	ND	1.1	0.34	ND	0.22	0.070	
622-96-8	4-Ethyltoluene	ND	1.1	0.34	ND	0.22	0.070	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.34	ND	0.22	0.070	
95-63-6	1,2,4-Trimethylbenzene	**0.65**	1.1	0.32	**0.13**	0.22	0.066	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.046	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.16	ND	0.036	0.026	
106-46-7	1,4-Dichlorobenzene	**0.20**	0.22	0.16	**0.033**	0.036	0.027	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.20	ND	0.036	0.033	
5989-27-5	d-Limonene	**26**	1.1	0.30	**4.6**	0.19	0.054	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	**0.52**	1.1	0.39	**0.10**	0.21	0.074	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-005

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/8/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/11/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS01039		

Initial Pressure (psig): -6.03 Final Pressure (psig): 3.90

Canister Dilution Factor: 2.15

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.84	Isobutane	**38**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00730

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.06 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**9.5**	0.87	0.24	**5.5**	0.51	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	0.87	0.30	**0.37**	0.18	0.060	
74-87-3	Chloromethane	ND	0.35	0.24	ND	0.17	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.87	0.33	ND	0.12	0.047	
75-01-4	Vinyl Chloride	ND	0.17	0.17	ND	0.068	0.065	
106-99-0	1,3-Butadiene	ND	0.35	0.24	ND	0.16	0.11	
74-83-9	Bromomethane	ND	0.35	0.16	ND	0.090	0.042	
75-00-3	Chloroethane	ND	0.35	0.15	ND	0.13	0.057	
64-17-5	Ethanol	**430**	8.7	1.4	**230**	4.6	0.74	
75-05-8	Acetonitrile	**0.49**	0.87	0.31	**0.29**	0.52	0.19	**J**
107-02-8	Acrolein	**1.0**	3.5	0.30	**0.44**	1.5	0.13	**J**
67-64-1	Acetone	**23**	8.7	1.3	**9.6**	3.7	0.56	
75-69-4	Trichlorofluoromethane	**1.2**	0.17	0.099	**0.22**	0.031	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	**8.8**	8.7	0.73	**3.6**	3.5	0.30	
107-13-1	Acrylonitrile	ND	0.87	0.30	ND	0.40	0.14	
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.044	0.041	
75-09-2	Methylene Chloride	**34**	0.87	0.30	**9.8**	0.25	0.085	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.056	0.042	
76-13-1	Trichlorotrifluoroethane	**0.24**	0.17	0.14	**0.031**	0.023	0.018	
75-15-0	Carbon Disulfide	ND	8.7	0.26	ND	2.8	0.084	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.16	ND	0.044	0.040	
75-34-3	1,1-Dichloroethane	ND	0.17	0.14	ND	0.043	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.048	0.045	
108-05-4	Vinyl Acetate	**3.3**	8.7	1.1	**0.93**	2.5	0.32	**J**
78-93-3	2-Butanone (MEK)	**1.4**	8.7	0.37	**0.48**	3.0	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00730

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.06 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.16	ND	0.044	0.040	
141-78-6	Ethyl Acetate	**21**	1.7	0.61	**5.9**	0.48	0.17	
110-54-3	n-Hexane	**0.51**	0.87	0.26	**0.15**	0.25	0.074	**J**
67-66-3	Chloroform	**0.25**	0.17	0.15	**0.052**	0.036	0.032	
109-99-9	Tetrahydrofuran (THF)	ND	0.87	0.35	ND	0.30	0.12	
107-06-2	1,2-Dichloroethane	ND	0.17	0.11	ND	0.043	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.13	ND	0.032	0.024	
71-43-2	Benzene	**0.50**	0.17	0.14	**0.16**	0.054	0.043	
56-23-5	Carbon Tetrachloride	**0.20**	0.17	0.15	**0.032**	0.028	0.024	
110-82-7	Cyclohexane	ND	1.7	0.50	ND	0.51	0.15	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.038	0.031	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.018	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.032	0.029	
123-91-1	1,4-Dioxane	ND	0.87	0.28	ND	0.24	0.077	
80-62-6	Methyl Methacrylate	ND	1.7	0.54	ND	0.43	0.13	
142-82-5	n-Heptane	**0.37**	0.87	0.30	**0.089**	0.21	0.072	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.24	ND	0.19	0.054	
108-10-1	4-Methyl-2-pentanone	**0.48**	0.87	0.28	**0.12**	0.21	0.068	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.87	0.28	ND	0.19	0.061	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.14	ND	0.032	0.026	
108-88-3	Toluene	**2.6**	0.87	0.30	**0.70**	0.23	0.079	
591-78-6	2-Hexanone	ND	0.87	0.28	ND	0.21	0.068	
124-48-1	Dibromochloromethane	ND	0.17	0.15	ND	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.15	ND	0.023	0.019	
123-86-4	n-Butyl Acetate	**0.38**	0.87	0.28	**0.081**	0.18	0.059	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00730

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.06 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.87	0.31	ND	0.19	0.067	
127-18-4	Tetrachloroethene	**0.62**	0.17	0.13	**0.092**	0.026	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.038	0.031	
100-41-4	Ethylbenzene	**0.35**	0.87	0.28	**0.082**	0.20	0.064	**J**
179601-23-1	m,p-Xylenes	**1.1**	0.87	0.50	**0.26**	0.20	0.12	
75-25-2	Bromoform	ND	0.87	0.26	ND	0.084	0.025	
100-42-5	Styrene	**0.51**	0.87	0.26	**0.12**	0.20	0.061	**J**
95-47-6	o-Xylene	**0.41**	0.87	0.26	**0.095**	0.20	0.060	**J**
111-84-2	n-Nonane	**0.29**	0.87	0.26	**0.055**	0.17	0.050	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.15	ND	0.025	0.021	
98-82-8	Cumene	ND	0.87	0.26	ND	0.18	0.053	
80-56-8	alpha-Pinene	**5.6**	0.87	0.24	**1.0**	0.16	0.044	
103-65-1	n-Propylbenzene	ND	0.87	0.28	ND	0.18	0.057	
622-96-8	4-Ethyltoluene	ND	0.87	0.28	ND	0.18	0.057	
108-67-8	1,3,5-Trimethylbenzene	ND	0.87	0.28	ND	0.18	0.057	
95-63-6	1,2,4-Trimethylbenzene	**0.68**	0.87	0.26	**0.14**	0.18	0.053	**J**
100-44-7	Benzyl Chloride	ND	0.87	0.19	ND	0.17	0.037	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.13	ND	0.029	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.17	0.13	ND	0.029	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.029	0.027	
5989-27-5	d-Limonene	**5.0**	0.87	0.24	**0.89**	0.16	0.044	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.87	0.17	ND	0.090	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	0.87	0.28	ND	0.12	0.038	
91-20-3	Naphthalene	ND	0.87	0.31	ND	0.17	0.060	
87-68-3	Hexachlorobutadiene	ND	0.87	0.24	ND	0.082	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-006

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/8/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/11/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00730		

Initial Pressure (psig): -4.06 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.74

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.85	Isobutane	**36**	
5.40	n-Butane	**61**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01109

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.83

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**20**	1.0	0.29	**11**	0.60	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.8**	1.0	0.35	**0.36**	0.21	0.071	
74-87-3	Chloromethane	ND	0.41	0.29	ND	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.19	ND	0.080	0.076	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**160**	10	1.6	**87**	5.4	0.87	
75-05-8	Acetonitrile	**0.41**	1.0	0.37	**0.25**	0.61	0.22	**J**
107-02-8	Acrolein	**2.9**	4.1	0.35	**1.2**	1.8	0.15	**J**
67-64-1	Acetone	**53**	10	1.6	**22**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**0.98**	0.21	0.12	**0.17**	0.036	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**19**	10	0.86	**7.5**	4.2	0.35	
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-09-2	Methylene Chloride	**49**	1.0	0.35	**14**	0.30	0.10	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.21	0.16	**0.062**	0.027	0.021	
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.3	0.099	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.047	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**3.0**	10	1.3	**0.85**	2.9	0.38	**J**
78-93-3	2-Butanone (MEK)	**4.3**	10	0.43	**1.5**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01109

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.83

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	**16**	2.1	0.72	**4.5**	0.57	0.20	
110-54-3	n-Hexane	**0.80**	1.0	0.31	**0.23**	0.29	0.087	**J**
67-66-3	Chloroform	**0.38**	0.21	0.18	**0.078**	0.042	0.037	
109-99-9	Tetrahydrofuran (THF)	**0.51**	1.0	0.41	**0.17**	0.35	0.14	**J**
107-06-2	1,2-Dichloroethane	**0.68**	0.21	0.13	**0.17**	0.051	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**1.1**	0.21	0.16	**0.34**	0.064	0.051	
56-23-5	Carbon Tetrachloride	**0.45**	0.21	0.18	**0.071**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.59	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.044	0.037	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	**0.46**	0.21	0.18	**0.085**	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.28	0.091	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.50	0.16	
142-82-5	n-Heptane	**1.1**	1.0	0.35	**0.27**	0.25	0.085	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.063	
108-10-1	4-Methyl-2-pentanone	**1.6**	1.0	0.33	**0.39**	0.25	0.080	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.072	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.16	ND	0.038	0.030	
108-88-3	Toluene	**6.3**	1.0	0.35	**1.7**	0.27	0.093	
591-78-6	2-Hexanone	**0.54**	1.0	0.33	**0.13**	0.25	0.080	**J**
124-48-1	Dibromochloromethane	ND	0.21	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.21	0.17	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**2.8**	1.0	0.33	**0.58**	0.22	0.069	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01109

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.83

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.67**	1.0	0.37	**0.14**	0.22	0.079	**J**
127-18-4	Tetrachloroethene	**0.44**	0.21	0.15	**0.065**	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	**2.6**	1.0	0.33	**0.60**	0.24	0.076	
179601-23-1	m,p-Xylenes	**8.7**	1.0	0.59	**2.0**	0.24	0.14	
75-25-2	Bromoform	ND	1.0	0.31	ND	0.099	0.030	
100-42-5	Styrene	**0.91**	1.0	0.31	**0.21**	0.24	0.072	**J**
95-47-6	o-Xylene	**2.9**	1.0	0.31	**0.66**	0.24	0.071	
111-84-2	n-Nonane	**0.69**	1.0	0.31	**0.13**	0.20	0.059	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
80-56-8	alpha-Pinene	**3.4**	1.0	0.29	**0.61**	0.18	0.052	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	**0.81**	1.0	0.31	**0.16**	0.21	0.063	**J**
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**15**	1.0	0.29	**2.6**	0.18	0.052	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.070	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.096	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-007

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	4/8/16
Analyst:	Lusine Hakobyan	Date Analyzed:	4/11/16
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AC01109		

Initial Pressure (psig): -5.68 Final Pressure (psig): 3.83

Canister Dilution Factor: 2.05

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.85	Isobutane	**94**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02102

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.99 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.14

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.1**	1.1	0.30	**1.2**	0.62	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.36	**0.38**	0.22	0.074	
74-87-3	Chloromethane	ND	0.43	0.30	ND	0.21	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.41	ND	0.15	0.058	
75-01-4	Vinyl Chloride	ND	0.21	0.20	ND	0.084	0.080	
106-99-0	1,3-Butadiene	ND	0.43	0.30	ND	0.19	0.14	
74-83-9	Bromomethane	ND	0.43	0.20	ND	0.11	0.051	
75-00-3	Chloroethane	ND	0.43	0.19	ND	0.16	0.071	
64-17-5	Ethanol	**22**	11	1.7	**12**	5.7	0.91	
75-05-8	Acetonitrile	ND	1.1	0.39	ND	0.64	0.23	
107-02-8	Acrolein	**0.84**	4.3	0.36	**0.37**	1.9	0.16	**J**
67-64-1	Acetone	**14**	11	1.6	**5.9**	4.5	0.69	
75-69-4	Trichlorofluoromethane	**0.99**	0.21	0.12	**0.18**	0.038	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.1**	11	0.90	**0.46**	4.4	0.37	**J**
107-13-1	Acrylonitrile	ND	1.1	0.36	ND	0.49	0.17	
75-35-4	1,1-Dichloroethene	ND	0.21	0.20	ND	0.054	0.050	
75-09-2	Methylene Chloride	**2.1**	1.1	0.36	**0.59**	0.31	0.10	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.068	0.052	
76-13-1	Trichlorotrifluoroethane	**0.49**	0.21	0.17	**0.064**	0.028	0.022	
75-15-0	Carbon Disulfide	ND	11	0.32	ND	3.4	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.054	0.049	
75-34-3	1,1-Dichloroethane	ND	0.21	0.17	ND	0.053	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.20	ND	0.059	0.055	
108-05-4	Vinyl Acetate	ND	11	1.4	ND	3.0	0.40	
78-93-3	2-Butanone (MEK)	**1.7**	11	0.45	**0.58**	3.6	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P1601873-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02102

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.99 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.14

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.20	ND	0.054	0.050	
141-78-6	Ethyl Acetate	**35**	2.1	0.75	**9.8**	0.59	0.21	
110-54-3	n-Hexane	**0.39**	1.1	0.32	**0.11**	0.30	0.091	**J**
67-66-3	Chloroform	**0.25**	0.21	0.19	**0.052**	0.044	0.039	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.43	ND	0.36	0.15	
107-06-2	1,2-Dichloroethane	ND	0.21	0.13	ND	0.053	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.16	ND	0.039	0.029	
71-43-2	Benzene	**0.63**	0.21	0.17	**0.20**	0.067	0.053	
56-23-5	Carbon Tetrachloride	**0.29**	0.21	0.18	**0.046**	0.034	0.029	
110-82-7	Cyclohexane	ND	2.1	0.62	ND	0.62	0.18	
78-87-5	1,2-Dichloropropane	ND	0.21	0.18	ND	0.046	0.038	
75-27-4	Bromodichloromethane	ND	0.21	0.15	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.21	0.19	ND	0.040	0.035	
123-91-1	1,4-Dioxane	ND	1.1	0.34	ND	0.30	0.095	
80-62-6	Methyl Methacrylate	ND	2.1	0.66	ND	0.52	0.16	
142-82-5	n-Heptane	ND	1.1	0.36	ND	0.26	0.089	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.30	ND	0.24	0.066	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.34	ND	0.26	0.084	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.34	ND	0.24	0.075	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.17	ND	0.039	0.031	
108-88-3	Toluene	**2.0**	1.1	0.36	**0.54**	0.28	0.097	
591-78-6	2-Hexanone	ND	1.1	0.34	ND	0.26	0.084	
124-48-1	Dibromochloromethane	ND	0.21	0.18	ND	0.025	0.021	
106-93-4	1,2-Dibromoethane	ND	0.21	0.18	ND	0.028	0.024	
123-86-4	n-Butyl Acetate	**0.35**	1.1	0.34	**0.073**	0.23	0.072	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P1601873-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02102

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.99 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.14

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.39	ND	0.23	0.082	
127-18-4	Tetrachloroethene	ND	0.21	0.15	ND	0.032	0.023	
108-90-7	Chlorobenzene	ND	0.21	0.18	ND	0.046	0.039	
100-41-4	Ethylbenzene	ND	1.1	0.34	ND	0.25	0.079	
179601-23-1	m,p-Xylenes	**0.74**	1.1	0.62	**0.17**	0.25	0.14	**J**
75-25-2	Bromoform	ND	1.1	0.32	ND	0.10	0.031	
100-42-5	Styrene	ND	1.1	0.32	ND	0.25	0.075	
95-47-6	o-Xylene	ND	1.1	0.32	ND	0.25	0.074	
111-84-2	n-Nonane	ND	1.1	0.32	ND	0.20	0.061	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.18	ND	0.031	0.026	
98-82-8	Cumene	ND	1.1	0.32	ND	0.22	0.065	
80-56-8	alpha-Pinene	**0.34**	1.1	0.30	**0.062**	0.19	0.054	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.34	ND	0.22	0.070	
622-96-8	4-Ethyltoluene	ND	1.1	0.34	ND	0.22	0.070	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.34	ND	0.22	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	0.32	ND	0.22	0.065	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.045	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.16	ND	0.036	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.036	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.20	ND	0.036	0.033	
5989-27-5	d-Limonene	ND	1.1	0.30	ND	0.19	0.054	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.21	ND	0.11	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	ND	1.1	0.39	ND	0.20	0.074	
87-68-3	Hexachlorobutadiene	ND	1.1	0.30	ND	0.10	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P160411-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.17**	0.50	0.17	**0.050**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P160411-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	**0.20**	0.50	0.17	**0.057**	0.14	0.049	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	**0.19**	0.50	0.15	**0.053**	0.14	0.043	**J**
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	**0.16**	0.10	0.072	**0.024**	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	**0.18**	0.50	0.18	**0.035**	0.095	0.034	**J**
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601873

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 4/6/16
Analyst: Lusine Hakobyan Date(s) Received: 4/8/16
Sample Type: 6.0 L Summa Canister(s) Date(s) Analyzed: 4/11/16
Test Notes:

ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
P160411-MB	**96**	**101**	**109**	70-130	
P160411-MB	**94**	**99**	**113**	70-130	
P160411-LCS	**94**	**101**	**111**	70-130	
P160411-LCS	**94**	**100**	**114**	70-130	
P1601873-001	**97**	**100**	**112**	70-130	
P1601873-002	**97**	**99**	**112**	70-130	
P1601873-003	**97**	**99**	**113**	70-130	
P1601873-004	**96**	**100**	**113**	70-130	
P1601873-005	**96**	**99**	**112**	70-130	
P1601873-006	**96**	**98**	**113**	70-130	
P1601873-007	**95**	**99**	**113**	70-130	
P1601873-008	**96**	**100**	**114**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P160411-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**203**	**104**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**149**	**79**	65-117	
74-87-3	Chloromethane	200	**105**	**53**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**158**	**77**	65-122	
75-01-4	Vinyl Chloride	200	**161**	**81**	65-128	
106-99-0	1,3-Butadiene	206	**175**	**85**	62-143	
74-83-9	Bromomethane	202	**188**	**93**	65-130	
75-00-3	Chloroethane	200	**185**	**93**	69-126	
64-17-5	Ethanol	998	**833**	**83**	57-126	
75-05-8	Acetonitrile	212	**180**	**85**	51-134	
107-02-8	Acrolein	214	**176**	**82**	55-146	
67-64-1	Acetone	1,080	**861**	**80**	57-120	
75-69-4	Trichlorofluoromethane	216	**155**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**333**	**80**	59-129	
107-13-1	Acrylonitrile	212	**180**	**85**	64-136	
75-35-4	1,1-Dichloroethene	216	**187**	**87**	72-123	
75-09-2	Methylene Chloride	222	**180**	**81**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**177**	**81**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**185**	**84**	68-118	
75-15-0	Carbon Disulfide	210	**157**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**182**	**87**	69-129	
75-34-3	1,1-Dichloroethane	212	**173**	**82**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**172**	**80**	55-128	
108-05-4	Vinyl Acetate	1,040	**932**	**90**	66-140	
78-93-3	2-Butanone (MEK)	220	**192**	**87**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**183**	**84**	65-125	
141-78-6	Ethyl Acetate	428	**370**	**86**	64-132	
110-54-3	n-Hexane	212	**170**	**80**	58-126	
67-66-3	Chloroform	224	**175**	**78**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**193**	**88**	64-123	
107-06-2	1,2-Dichloroethane	214	**169**	**79**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**166**	**79**	68-120	
71-43-2	Benzene	226	**174**	**77**	61-110	
56-23-5	Carbon Tetrachloride	230	**180**	**78**	65-137	
110-82-7	Cyclohexane	424	**344**	**81**	68-122	
78-87-5	1,2-Dichloropropane	216	**180**	**83**	67-122	
75-27-4	Bromodichloromethane	218	**179**	**82**	71-124	
79-01-6	Trichloroethene	216	**170**	**79**	71-121	
123-91-1	1,4-Dioxane	210	**186**	**89**	67-122	
80-62-6	Methyl Methacrylate	422	**359**	**85**	76-130	
142-82-5	n-Heptane	216	**176**	**81**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**179**	**86**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**187**	**85**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**182**	**87**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**178**	**82**	73-121	
108-88-3	Toluene	218	**170**	**78**	67-117	
591-78-6	2-Hexanone	220	**183**	**83**	59-128	
124-48-1	Dibromochloromethane	220	**193**	**88**	73-132	
106-93-4	1,2-Dibromoethane	218	**185**	**85**	73-128	
123-86-4	n-Butyl Acetate	226	**187**	**83**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P160411-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	210	**179**	**85**	67-124	
127-18-4	Tetrachloroethene	202	**170**	**84**	65-126	
108-90-7	Chlorobenzene	220	**181**	**82**	68-120	
100-41-4	Ethylbenzene	218	**176**	**81**	69-123	
179601-23-1	m,p-Xylenes	428	**341**	**80**	67-125	
75-25-2	Bromoform	228	**197**	**86**	68-153	
100-42-5	Styrene	222	**181**	**82**	68-132	
95-47-6	o-Xylene	210	**168**	**80**	67-124	
111-84-2	n-Nonane	204	**162**	**79**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**179**	**85**	72-128	
98-82-8	Cumene	208	**180**	**87**	67-124	
80-56-8	alpha-Pinene	212	**176**	**83**	67-129	
103-65-1	n-Propylbenzene	204	**167**	**82**	67-125	
622-96-8	4-Ethyltoluene	214	**180**	**84**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**170**	**79**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**176**	**81**	62-134	
100-44-7	Benzyl Chloride	220	**208**	**95**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**188**	**82**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**177**	**85**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**189**	**86**	62-134	
5989-27-5	d-Limonene	210	**178**	**85**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**212**	**97**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**194**	**84**	60-145	
91-20-3	Naphthalene	218	**170**	**78**	56-158	
87-68-3	Hexachlorobutadiene	230	**194**	**84**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873
ALS Sample ID: P160411-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/12/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**197**	**101**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**150**	**80**	65-117	
74-87-3	Chloromethane	200	**120**	**60**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**160**	**78**	65-122	
75-01-4	Vinyl Chloride	200	**163**	**82**	65-128	
106-99-0	1,3-Butadiene	206	**180**	**87**	62-143	
74-83-9	Bromomethane	202	**190**	**94**	65-130	
75-00-3	Chloroethane	200	**186**	**93**	69-126	
64-17-5	Ethanol	998	**846**	**85**	57-126	
75-05-8	Acetonitrile	212	**182**	**86**	51-134	
107-02-8	Acrolein	214	**178**	**83**	55-146	
67-64-1	Acetone	1,080	**874**	**81**	57-120	
75-69-4	Trichlorofluoromethane	216	**155**	**72**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**343**	**82**	59-129	
107-13-1	Acrylonitrile	212	**182**	**86**	64-136	
75-35-4	1,1-Dichloroethene	216	**188**	**87**	72-123	
75-09-2	Methylene Chloride	222	**182**	**82**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**177**	**81**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**185**	**84**	68-118	
75-15-0	Carbon Disulfide	210	**158**	**75**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**183**	**87**	69-129	
75-34-3	1,1-Dichloroethane	212	**175**	**83**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**173**	**80**	55-128	
108-05-4	Vinyl Acetate	1,040	**940**	**90**	66-140	
78-93-3	2-Butanone (MEK)	220	**193**	**88**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/12/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**185**	**85**	65-125	
141-78-6	Ethyl Acetate	428	**372**	**87**	64-132	
110-54-3	n-Hexane	212	**170**	**80**	58-126	
67-66-3	Chloroform	224	**176**	**79**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**194**	**88**	64-123	
107-06-2	1,2-Dichloroethane	214	**170**	**79**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**168**	**80**	68-120	
71-43-2	Benzene	226	**176**	**78**	61-110	
56-23-5	Carbon Tetrachloride	230	**182**	**79**	65-137	
110-82-7	Cyclohexane	424	**347**	**82**	68-122	
78-87-5	1,2-Dichloropropane	216	**181**	**84**	67-122	
75-27-4	Bromodichloromethane	218	**179**	**82**	71-124	
79-01-6	Trichloroethene	216	**170**	**79**	71-121	
123-91-1	1,4-Dioxane	210	**188**	**90**	67-122	
80-62-6	Methyl Methacrylate	422	**362**	**86**	76-130	
142-82-5	n-Heptane	216	**177**	**82**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**180**	**87**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**188**	**85**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**184**	**88**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**180**	**83**	73-121	
108-88-3	Toluene	218	**167**	**77**	67-117	
591-78-6	2-Hexanone	220	**179**	**81**	59-128	
124-48-1	Dibromochloromethane	220	**189**	**86**	73-132	
106-93-4	1,2-Dibromoethane	218	**182**	**83**	73-128	
123-86-4	n-Butyl Acetate	226	**183**	**81**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601873

ALS Sample ID: P160411-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/12/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**175**	**83**	67-124	
127-18-4	Tetrachloroethene	202	**167**	**83**	65-126	
108-90-7	Chlorobenzene	220	**177**	**80**	68-120	
100-41-4	Ethylbenzene	218	**172**	**79**	69-123	
179601-23-1	m,p-Xylenes	428	**335**	**78**	67-125	
75-25-2	Bromoform	228	**194**	**85**	68-153	
100-42-5	Styrene	222	**178**	**80**	68-132	
95-47-6	o-Xylene	210	**165**	**79**	67-124	
111-84-2	n-Nonane	204	**159**	**78**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**175**	**83**	72-128	
98-82-8	Cumene	208	**178**	**86**	67-124	
80-56-8	alpha-Pinene	212	**173**	**82**	67-129	
103-65-1	n-Propylbenzene	204	**164**	**80**	67-125	
622-96-8	4-Ethyltoluene	214	**174**	**81**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**167**	**78**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**173**	**79**	62-134	
100-44-7	Benzyl Chloride	220	**204**	**93**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**185**	**81**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**173**	**83**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**185**	**84**	62-134	
5989-27-5	d-Limonene	210	**175**	**83**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**208**	**95**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**191**	**83**	60-145	
91-20-3	Naphthalene	218	**167**	**77**	56-158	
87-68-3	Hexachlorobutadiene	230	**190**	**83**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 14, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 8, 2016. For your reference, these analyses have been assigned our service request number P1601874.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601874
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 8, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Two containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601874
Project ID: Aliso Canyon / 603287048

Date Received: 4/8/2016
Time Received: 15:10

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
	P1601874-001	Air	4/7/2016	10:15	CC00182	-5.28	3.96	X
	P1601874-002	Air	4/7/2016	11:34	CC00181	-5.36	3.80	X
	P1601874-003	Air	4/7/2016	08:18	AS00593	-1.99	3.98	X

P1601874 Page 1 of 2

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/7/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Shannan Hill / Lucas Walkin
	Rotameter: N/A **Serial # :** N/A	**Expiration Date:** N/A

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 9.16 ug/m³ 75			4/7	4/8			
			Avg:						
24-SU	"	"	-28	-10	1045	1015	1410		Kitchen Island, Can s/n 3107 gauge s/N 7236824 gauge before opening = 0.
			Avg:						
124-SU	"	"	-27.5	-10	1154	1134	1420		Kitchen Table, Can 3632 gauge s/n F220996 gauge before opening = 0
			Avg:						
~~25-SU6~~	"	"			1345	1346	1		Patio Table, exterior grab sample
			Avg:						Can N0035
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Shannan Hill	**Date:** 4/8/16	**Time:** 1245	**Received by:** [signature]	**Date:** 4/8/16	**Time:** 1244
Relinquished by: [signature]	**Date:** 4/8/16	**Time:** 1509	**Received by:** [signature]	**Date:** 4/8/16	**Time:** 1509
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

P16P1874 Page 2 of 2

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/7
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannan Hill / Lucas Wallin
	Rotameter: NA Serial # : NA	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75			4/7	4/8			
			Avg:						
26-SU	11	11	-2	-4	0847	0818	1411		dining room table, can 15402, gauge SN3N7178 gauge zero at open
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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2655 Park Center Drive, Suite A, Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by: Shannan Hill	Date: 4/8/16	Time: 1240	Received by:	Date: 4/8/16	Time: 1244		
Relinquished by:	Date: 4/8/16	Time: 1509	Received by:	Date: 4/8/16	Time: 1509		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		

6 of 25

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601874

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/8/16 Date opened: 4/8/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601874-001.01	Canister					
P1601874-002.01	Canister					
P1601874-003.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P1601874-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00182

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.28 Final Pressure (psig): 3.96

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.9**	0.99	0.28	**1.7**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.99	0.34	**0.40**	0.20	0.068	
74-87-3	Chloromethane	**0.52**	0.40	0.28	**0.25**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.99	0.38	ND	0.14	0.054	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.077	0.074	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.18	ND	0.10	0.047	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.065	
64-17-5	Ethanol	**62**	9.9	1.6	**33**	5.3	0.84	
75-05-8	Acetonitrile	ND	0.99	0.36	ND	0.59	0.21	
107-02-8	Acrolein	**2.5**	4.0	0.34	**1.1**	1.7	0.15	**J**
67-64-1	Acetone	**37**	9.9	1.5	**16**	4.2	0.64	
75-69-4	Trichlorofluoromethane	**1.1**	0.20	0.11	**0.19**	0.035	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.2**	9.9	0.83	**1.7**	4.0	0.34	**J**
107-13-1	Acrylonitrile	ND	0.99	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.18	ND	0.050	0.046	
75-09-2	Methylene Chloride	**68**	0.99	0.34	**20**	0.29	0.097	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.063	0.048	
76-13-1	Trichlorotrifluoroethane	**0.54**	0.20	0.16	**0.070**	0.026	0.021	
75-15-0	Carbon Disulfide	**0.46**	9.9	0.30	**0.15**	3.2	0.095	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.050	0.045	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.049	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.18	ND	0.055	0.051	
108-05-4	Vinyl Acetate	**2.9**	9.9	1.3	**0.82**	2.8	0.37	**J**
78-93-3	2-Butanone (MEK)	**5.4**	9.9	0.42	**1.8**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P1601874-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00182

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.28 Final Pressure (psig): 3.96

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.050	0.046	
141-78-6	Ethyl Acetate	**9.8**	2.0	0.69	**2.7**	0.55	0.19	
110-54-3	n-Hexane	**0.88**	0.99	0.30	**0.25**	0.28	0.084	**J, B**
67-66-3	Chloroform	**0.28**	0.20	0.18	**0.056**	0.041	0.036	
109-99-9	Tetrahydrofuran (THF)	ND	0.99	0.40	ND	0.34	0.13	
107-06-2	1,2-Dichloroethane	**0.13**	0.20	0.12	**0.033**	0.049	0.030	**J**
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.036	0.027	
71-43-2	Benzene	**0.95**	0.20	0.16	**0.30**	0.062	0.049	
56-23-5	Carbon Tetrachloride	**0.54**	0.20	0.17	**0.085**	0.031	0.027	
110-82-7	Cyclohexane	ND	2.0	0.57	ND	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.16	ND	0.043	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.13	ND	0.030	0.020	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.037	0.033	
123-91-1	1,4-Dioxane	ND	0.99	0.32	ND	0.27	0.088	
80-62-6	Methyl Methacrylate	**1.2**	2.0	0.61	**0.30**	0.48	0.15	**J**
142-82-5	n-Heptane	**1.7**	0.99	0.34	**0.42**	0.24	0.082	
10061-01-5	cis-1,3-Dichloropropene	ND	0.99	0.28	ND	0.22	0.061	
108-10-1	4-Methyl-2-pentanone	**1.5**	0.99	0.32	**0.36**	0.24	0.077	
10061-02-6	trans-1,3-Dichloropropene	ND	0.99	0.32	ND	0.22	0.070	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.036	0.029	
108-88-3	Toluene	**9.2**	0.99	0.34	**2.5**	0.26	0.089	
591-78-6	2-Hexanone	**0.33**	0.99	0.32	**0.081**	0.24	0.077	**J**
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.023	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**0.70**	0.99	0.32	**0.15**	0.21	0.067	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P1601874-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00182

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.28 Final Pressure (psig): 3.96

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.99	0.36	ND	0.21	0.076	
127-18-4	Tetrachloroethene	ND	0.20	0.14	ND	0.029	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.16	ND	0.043	0.036	
100-41-4	Ethylbenzene	**0.90**	0.99	0.32	**0.21**	0.23	0.073	**J**
179601-23-1	m,p-Xylenes	**2.8**	0.99	0.57	**0.64**	0.23	0.13	
75-25-2	Bromoform	ND	0.99	0.30	ND	0.096	0.029	
100-42-5	Styrene	**0.61**	0.99	0.30	**0.14**	0.23	0.070	**J**
95-47-6	o-Xylene	**0.86**	0.99	0.30	**0.20**	0.23	0.068	**J**
111-84-2	n-Nonane	**0.37**	0.99	0.30	**0.070**	0.19	0.057	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.024	
98-82-8	Cumene	ND	0.99	0.30	ND	0.20	0.060	
80-56-8	alpha-Pinene	**3.6**	0.99	0.28	**0.65**	0.18	0.050	
103-65-1	n-Propylbenzene	ND	0.99	0.32	ND	0.20	0.064	
622-96-8	4-Ethyltoluene	ND	0.99	0.32	ND	0.20	0.064	
108-67-8	1,3,5-Trimethylbenzene	ND	0.99	0.32	ND	0.20	0.064	
95-63-6	1,2,4-Trimethylbenzene	**0.81**	0.99	0.30	**0.17**	0.20	0.060	**J**
100-44-7	Benzyl Chloride	ND	0.99	0.22	ND	0.19	0.042	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.18	ND	0.033	0.031	
5989-27-5	d-Limonene	**14**	0.99	0.28	**2.4**	0.18	0.050	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.99	0.20	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.99	0.32	ND	0.13	0.043	
91-20-3	Naphthalene	**0.75**	0.99	0.36	**0.14**	0.19	0.068	**J**
87-68-3	Hexachlorobutadiene	ND	0.99	0.28	ND	0.093	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P1601874-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:
Container ID: CC00181

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.36 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**68**	0.99	0.28	**40**	0.58	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.99	0.34	**0.41**	0.20	0.068	
74-87-3	Chloromethane	**0.60**	0.40	0.28	**0.29**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.99	0.38	ND	0.14	0.054	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.077	0.074	
106-99-0	1,3-Butadiene	ND	0.40	0.28	ND	0.18	0.13	
74-83-9	Bromomethane	ND	0.40	0.18	ND	0.10	0.047	
75-00-3	Chloroethane	ND	0.40	0.17	ND	0.15	0.065	
64-17-5	Ethanol	**760**	9.9	1.6	**410**	5.3	0.84	
75-05-8	Acetonitrile	**0.48**	0.99	0.36	**0.29**	0.59	0.21	**J**
107-02-8	Acrolein	**3.6**	4.0	0.34	**1.6**	1.7	0.15	**J**
67-64-1	Acetone	**48**	9.9	1.5	**20**	4.2	0.64	
75-69-4	Trichlorofluoromethane	**1.1**	0.20	0.11	**0.20**	0.035	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**210**	9.9	0.83	**87**	4.0	0.34	
107-13-1	Acrylonitrile	ND	0.99	0.34	ND	0.46	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.18	ND	0.050	0.046	
75-09-2	Methylene Chloride	**13**	0.99	0.34	**3.8**	0.29	0.097	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.063	0.048	
76-13-1	Trichlorotrifluoroethane	**0.52**	0.20	0.16	**0.068**	0.026	0.021	
75-15-0	Carbon Disulfide	**0.87**	9.9	0.30	**0.28**	3.2	0.095	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.050	0.045	
75-34-3	1,1-Dichloroethane	ND	0.20	0.16	ND	0.049	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.18	ND	0.055	0.051	
108-05-4	Vinyl Acetate	**7.3**	9.9	1.3	**2.1**	2.8	0.37	**J**
78-93-3	2-Butanone (MEK)	**5.0**	9.9	0.42	**1.7**	3.4	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P1601874-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00181

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.36 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.050	0.046	
141-78-6	Ethyl Acetate	**63**	2.0	0.69	**18**	0.55	0.19	
110-54-3	n-Hexane	**1.3**	0.99	0.30	**0.36**	0.28	0.084	**B**
67-66-3	Chloroform	**0.93**	0.20	0.18	**0.19**	0.041	0.036	
109-99-9	Tetrahydrofuran (THF)	ND	0.99	0.40	ND	0.34	0.13	
107-06-2	1,2-Dichloroethane	**0.45**	0.20	0.12	**0.11**	0.049	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.15	ND	0.036	0.027	
71-43-2	Benzene	**1.0**	0.20	0.16	**0.32**	0.062	0.049	
56-23-5	Carbon Tetrachloride	**0.81**	0.20	0.17	**0.13**	0.031	0.027	
110-82-7	Cyclohexane	ND	2.0	0.57	ND	0.58	0.17	
78-87-5	1,2-Dichloropropane	ND	0.20	0.16	ND	0.043	0.036	
75-27-4	Bromodichloromethane	ND	0.20	0.13	ND	0.030	0.020	
79-01-6	Trichloroethene	ND	0.20	0.18	ND	0.037	0.033	
123-91-1	1,4-Dioxane	ND	0.99	0.32	ND	0.27	0.088	
80-62-6	Methyl Methacrylate	ND	2.0	0.61	ND	0.48	0.15	
142-82-5	n-Heptane	**1.3**	0.99	0.34	**0.31**	0.24	0.082	
10061-01-5	cis-1,3-Dichloropropene	ND	0.99	0.28	ND	0.22	0.061	
108-10-1	4-Methyl-2-pentanone	ND	0.99	0.32	ND	0.24	0.077	
10061-02-6	trans-1,3-Dichloropropene	ND	0.99	0.32	ND	0.22	0.070	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.036	0.029	
108-88-3	Toluene	**4.3**	0.99	0.34	**1.1**	0.26	0.089	
591-78-6	2-Hexanone	ND	0.99	0.32	ND	0.24	0.077	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.023	0.020	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.026	0.022	
123-86-4	n-Butyl Acetate	**3.0**	0.99	0.32	**0.64**	0.21	0.067	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

B = Analyte detected in both the sample and associated method blank.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P1601874-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Container ID: CC00181

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.36 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	**0.58**	0.99	0.36	**0.12**	0.21	0.076	**J**
127-18-4	Tetrachloroethene	**0.73**	0.20	0.14	**0.11**	0.029	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.16	ND	0.043	0.036	
100-41-4	Ethylbenzene	**0.94**	0.99	0.32	**0.22**	0.23	0.073	**J**
179601-23-1	m,p-Xylenes	**1.8**	0.99	0.57	**0.40**	0.23	0.13	
75-25-2	Bromoform	**3.1**	0.99	0.30	**0.30**	0.096	0.029	
100-42-5	Styrene	**0.67**	0.99	0.30	**0.16**	0.23	0.070	**J**
95-47-6	o-Xylene	**0.67**	0.99	0.30	**0.15**	0.23	0.068	**J**
111-84-2	n-Nonane	**0.43**	0.99	0.30	**0.081**	0.19	0.057	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.17	ND	0.029	0.024	
98-82-8	Cumene	ND	0.99	0.30	ND	0.20	0.060	
80-56-8	alpha-Pinene	**3.9**	0.99	0.28	**0.71**	0.18	0.050	
103-65-1	n-Propylbenzene	ND	0.99	0.32	ND	0.20	0.064	
622-96-8	4-Ethyltoluene	ND	0.99	0.32	ND	0.20	0.064	
108-67-8	1,3,5-Trimethylbenzene	ND	0.99	0.32	ND	0.20	0.064	
95-63-6	1,2,4-Trimethylbenzene	**0.74**	0.99	0.30	**0.15**	0.20	0.060	**J**
100-44-7	Benzyl Chloride	ND	0.99	0.22	ND	0.19	0.042	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.15	ND	0.033	0.024	
106-46-7	1,4-Dichlorobenzene	**0.45**	0.20	0.15	**0.075**	0.033	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.18	ND	0.033	0.031	
5989-27-5	d-Limonene	**25**	0.99	0.28	**4.4**	0.18	0.050	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.99	0.20	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.99	0.32	ND	0.13	0.043	
91-20-3	Naphthalene	**0.38**	0.99	0.36	**0.072**	0.19	0.068	**J**
87-68-3	Hexachlorobutadiene	ND	0.99	0.28	ND	0.093	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P1601874-002

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes: **T**

Container ID: CC00181

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.36 Final Pressure (psig): 3.80

Canister Dilution Factor: 1.98

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
3.72	Propane	**120**	
4.16	Isobutane	**220**	
4.30	Methyl Alcohol	**23**	
10.46	1-Butanol	**34**	
18.18	Octamethylcyclotetrasiloxane	**69**	
20.25	Decamethylcyclopentasiloxane	**110**	
22.63	n-Tetradecane	**95**	
23.60	n-Pentadecane	**23**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P1601874-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00593

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.99 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**2.7**	0.74	0.21	**1.6**	0.43	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.74	0.25	**0.42**	0.15	0.051	
74-87-3	Chloromethane	**0.49**	0.29	0.21	**0.24**	0.14	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	0.28	ND	0.11	0.040	
75-01-4	Vinyl Chloride	ND	0.15	0.14	ND	0.058	0.055	
106-99-0	1,3-Butadiene	ND	0.29	0.21	ND	0.13	0.093	
74-83-9	Bromomethane	ND	0.29	0.14	ND	0.076	0.035	
75-00-3	Chloroethane	ND	0.29	0.13	ND	0.11	0.048	
64-17-5	Ethanol	**81**	7.4	1.2	**43**	3.9	0.62	
75-05-8	Acetonitrile	ND	0.74	0.26	ND	0.44	0.16	
107-02-8	Acrolein	**1.1**	2.9	0.25	**0.47**	1.3	0.11	**J**
67-64-1	Acetone	**14**	7.4	1.1	**6.1**	3.1	0.48	
75-69-4	Trichlorofluoromethane	**1.6**	0.15	0.084	**0.28**	0.026	0.015	
67-63-0	2-Propanol (Isopropyl Alcohol)	**7.5**	7.4	0.62	**3.1**	3.0	0.25	
107-13-1	Acrylonitrile	ND	0.74	0.25	ND	0.34	0.12	
75-35-4	1,1-Dichloroethene	ND	0.15	0.14	ND	0.037	0.034	
75-09-2	Methylene Chloride	**51**	0.74	0.25	**15**	0.21	0.072	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.11	ND	0.047	0.036	
76-13-1	Trichlorotrifluoroethane	**0.35**	0.15	0.12	**0.046**	0.019	0.015	
75-15-0	Carbon Disulfide	ND	7.4	0.22	ND	2.4	0.071	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.13	ND	0.037	0.034	
75-34-3	1,1-Dichloroethane	ND	0.15	0.12	ND	0.036	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.14	ND	0.041	0.038	
108-05-4	Vinyl Acetate	ND	7.4	0.96	ND	2.1	0.27	
78-93-3	2-Butanone (MEK)	**2.0**	7.4	0.31	**0.68**	2.5	0.10	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P1601874-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00593

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.99 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.14	ND	0.037	0.034	
141-78-6	Ethyl Acetate	**2.4**	1.5	0.51	**0.66**	0.41	0.14	
110-54-3	n-Hexane	**0.87**	0.74	0.22	**0.25**	0.21	0.063	**B**
67-66-3	Chloroform	**0.61**	0.15	0.13	**0.13**	0.030	0.027	
109-99-9	Tetrahydrofuran (THF)	**1.2**	0.74	0.29	**0.39**	0.25	0.10	
107-06-2	1,2-Dichloroethane	**0.59**	0.15	0.091	**0.15**	0.036	0.023	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.11	ND	0.027	0.020	
71-43-2	Benzene	**0.65**	0.15	0.12	**0.20**	0.046	0.036	
56-23-5	Carbon Tetrachloride	**0.35**	0.15	0.13	**0.055**	0.023	0.020	
110-82-7	Cyclohexane	**0.48**	1.5	0.43	**0.14**	0.43	0.12	**J**
78-87-5	1,2-Dichloropropane	ND	0.15	0.12	ND	0.032	0.026	
75-27-4	Bromodichloromethane	ND	0.15	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	ND	0.15	0.13	ND	0.027	0.024	
123-91-1	1,4-Dioxane	ND	0.74	0.24	ND	0.20	0.065	
80-62-6	Methyl Methacrylate	ND	1.5	0.46	ND	0.36	0.11	
142-82-5	n-Heptane	**0.42**	0.74	0.25	**0.10**	0.18	0.061	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.21	ND	0.16	0.045	
108-10-1	4-Methyl-2-pentanone	**0.32**	0.74	0.24	**0.078**	0.18	0.057	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.24	ND	0.16	0.052	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.12	ND	0.027	0.022	
108-88-3	Toluene	**2.2**	0.74	0.25	**0.58**	0.20	0.066	
591-78-6	2-Hexanone	ND	0.74	0.24	ND	0.18	0.057	
124-48-1	Dibromochloromethane	ND	0.15	0.12	ND	0.017	0.015	
106-93-4	1,2-Dibromoethane	ND	0.15	0.12	ND	0.019	0.016	
123-86-4	n-Butyl Acetate	**0.58**	0.74	0.24	**0.12**	0.15	0.050	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P1601874-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00593

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.99 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.74	0.26	ND	0.16	0.057	
127-18-4	Tetrachloroethene	**0.23**	0.15	0.11	**0.033**	0.022	0.016	
108-90-7	Chlorobenzene	ND	0.15	0.12	ND	0.032	0.027	
100-41-4	Ethylbenzene	**0.36**	0.74	0.24	**0.082**	0.17	0.054	**J**
179601-23-1	m,p-Xylenes	**1.0**	0.74	0.43	**0.24**	0.17	0.098	
75-25-2	Bromoform	ND	0.74	0.22	ND	0.071	0.021	
100-42-5	Styrene	**0.48**	0.74	0.22	**0.11**	0.17	0.052	**J**
95-47-6	o-Xylene	**0.39**	0.74	0.22	**0.089**	0.17	0.051	**J**
111-84-2	n-Nonane	ND	0.74	0.22	ND	0.14	0.042	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.12	ND	0.021	0.018	
98-82-8	Cumene	**1.3**	0.74	0.22	**0.27**	0.15	0.045	
80-56-8	alpha-Pinene	**1.3**	0.74	0.21	**0.24**	0.13	0.037	
103-65-1	n-Propylbenzene	ND	0.74	0.24	ND	0.15	0.048	
622-96-8	4-Ethyltoluene	ND	0.74	0.24	ND	0.15	0.048	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	0.24	ND	0.15	0.048	
95-63-6	1,2,4-Trimethylbenzene	**0.35**	0.74	0.22	**0.071**	0.15	0.045	**J**
100-44-7	Benzyl Chloride	ND	0.74	0.16	ND	0.14	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.11	ND	0.024	0.018	
106-46-7	1,4-Dichlorobenzene	**0.12**	0.15	0.11	**0.019**	0.024	0.019	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.14	ND	0.024	0.023	
5989-27-5	d-Limonene	**2.8**	0.74	0.21	**0.50**	0.13	0.037	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	0.15	ND	0.076	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	0.24	ND	0.099	0.032	
91-20-3	Naphthalene	ND	0.74	0.26	ND	0.14	0.050	
87-68-3	Hexachlorobutadiene	ND	0.74	0.21	ND	0.069	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P160410-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	**0.22**	0.50	0.15	**0.063**	0.14	0.043	**J**
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P160410-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P160410-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601874

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 4/7/16
Analyst: Simon Cao Date(s) Received: 4/8/16
Sample Type: Canister(s) Date(s) Analyzed: 4/10/16
Test Notes:

[redacted]	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
	P160410-MB	**92**	**103**	**106**	70-130	
	P160410-LCS	**91**	**102**	**107**	70-130	
	P1601874-001	**94**	**100**	**105**	70-130	
	P1601874-002	**94**	**100**	**106**	70-130	
	P1601874-003	**94**	**100**	**106**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**178**	**91**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**152**	**81**	65-117	
74-87-3	Chloromethane	200	**160**	**80**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**145**	**71**	65-122	
75-01-4	Vinyl Chloride	200	**131**	**66**	65-128	
106-99-0	1,3-Butadiene	206	**165**	**80**	62-143	
74-83-9	Bromomethane	202	**177**	**88**	65-130	
75-00-3	Chloroethane	200	**174**	**87**	69-126	
64-17-5	Ethanol	998	**880**	**88**	57-126	
75-05-8	Acetonitrile	212	**174**	**82**	51-134	
107-02-8	Acrolein	214	**208**	**97**	55-146	
67-64-1	Acetone	1,080	**902**	**84**	57-120	
75-69-4	Trichlorofluoromethane	216	**167**	**77**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**378**	**90**	59-129	
107-13-1	Acrylonitrile	212	**206**	**97**	64-136	
75-35-4	1,1-Dichloroethene	216	**205**	**95**	72-123	
75-09-2	Methylene Chloride	222	**191**	**86**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**216**	**99**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**206**	**94**	68-118	
75-15-0	Carbon Disulfide	210	**183**	**87**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**214**	**102**	69-129	
75-34-3	1,1-Dichloroethane	212	**189**	**89**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**206**	**95**	55-128	
108-05-4	Vinyl Acetate	1,040	**1060**	**102**	66-140	
78-93-3	2-Butanone (MEK)	220	**219**	**100**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874

ALS Sample ID: P160410-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/10/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**205**	**94**	65-125	
141-78-6	Ethyl Acetate	428	**405**	**95**	64-132	
110-54-3	n-Hexane	212	**186**	**88**	58-126	
67-66-3	Chloroform	224	**197**	**88**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**211**	**96**	64-123	
107-06-2	1,2-Dichloroethane	214	**191**	**89**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**198**	**94**	68-120	
71-43-2	Benzene	226	**177**	**78**	61-110	
56-23-5	Carbon Tetrachloride	230	**214**	**93**	65-137	
110-82-7	Cyclohexane	424	**380**	**90**	68-122	
78-87-5	1,2-Dichloropropane	216	**196**	**91**	67-122	
75-27-4	Bromodichloromethane	218	**206**	**94**	71-124	
79-01-6	Trichloroethene	216	**185**	**86**	71-121	
123-91-1	1,4-Dioxane	210	**224**	**107**	67-122	
80-62-6	Methyl Methacrylate	422	**448**	**106**	76-130	
142-82-5	n-Heptane	216	**200**	**93**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**216**	**104**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**222**	**101**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**227**	**108**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**209**	**97**	73-121	
108-88-3	Toluene	218	**202**	**93**	67-117	
591-78-6	2-Hexanone	220	**239**	**109**	59-128	
124-48-1	Dibromochloromethane	220	**238**	**108**	73-132	
106-93-4	1,2-Dibromoethane	218	**232**	**106**	73-128	
123-86-4	n-Butyl Acetate	226	**247**	**109**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601874
ALS Sample ID: P160410-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/10/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**208**	**99**	67-124	
127-18-4	Tetrachloroethene	202	**207**	**102**	65-126	
108-90-7	Chlorobenzene	220	**209**	**95**	68-120	
100-41-4	Ethylbenzene	218	**217**	**100**	69-123	
179601-23-1	m,p-Xylenes	428	**427**	**100**	67-125	
75-25-2	Bromoform	228	**241**	**106**	68-153	
100-42-5	Styrene	222	**241**	**109**	68-132	
95-47-6	o-Xylene	210	**207**	**99**	67-124	
111-84-2	n-Nonane	204	**199**	**98**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**221**	**105**	72-128	
98-82-8	Cumene	208	**204**	**98**	67-124	
80-56-8	alpha-Pinene	212	**216**	**102**	67-129	
103-65-1	n-Propylbenzene	204	**199**	**98**	67-125	
622-96-8	4-Ethyltoluene	214	**209**	**98**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**216**	**101**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**219**	**100**	62-134	
100-44-7	Benzyl Chloride	220	**259**	**118**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**228**	**100**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**220**	**106**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**225**	**102**	62-134	
5989-27-5	d-Limonene	210	**209**	**100**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**251**	**115**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**248**	**108**	60-145	
91-20-3	Naphthalene	218	**233**	**107**	56-158	
87-68-3	Hexachlorobutadiene	230	**245**	**107**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

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LABORATORY REPORT

April 14, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 8, 2016. For your reference, these analyses have been assigned our service request number P1601875.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 3:34 pm, Apr 14, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601875
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 8, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Two of the containers were batch certified and supplied by one or all of the following suppliers: AQMD, Eurofins or Advanced Technology Laboratories. Once delivered to ALS Environmental the containers were cleaned and batch certified, prior to sampling, down to the method reporting limit (MRL) reported for this project. The ALS containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601875
Project ID: Aliso Canyon / 603287048

Date Received: 4/8/2016
Time Received: 15:08

Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
P1601875-001	Air	4/6/2016	09:47	CC00211	-6.38	3.92	X
P1601875-002	Air	4/7/2016	15:35	AS00736	-5.13	3.99	X
P1601875-003	Air	4/7/2016	15:27	AS00725	-4.07	3.78	X
P1601875-004	Air	4/7/2016	15:45	AC01860	-4.77	3.99	X
P1601875-005	Air	4/7/2016	12:54	CC00208	-5.76	3.63	X
P1601875-006	Air	4/7/2016	14:11	AC02089	-0.46	3.73	X
P1601875-007	Air	4/7/2016	13:45	AC02064	-0.26	3.97	X

P1601875

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4-6-16
	Project Location: Aliso Canyon	LACo. CIH - Jim Y.	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Hovaness Dekirjian, Wallace Scomies (samplers)	
	Rotameter: —	**Serial # :** —	**Expiration Date:** —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75							
				Avg:					
8/19 SU	↓	↓	-28.5	-12	0956	0947	—	—	Summa - Restek #3559 F.C. - MacDaniel #FCC0119 N. Dining Room Table *Patio open for dog
				Avg:					
				Avg:					
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by: Wallace Scomies	**Date:** 4-7-16	**Time:** 1600	**Received by:** [signature]	**Date:** 4/7/16	**Time:** 9:08
Relinquished by: [signature]	**Date:** 4-7-16	**Time:** 4:10	**Received by:** [signature]	**Date:** 4/7/16	**Time:** 1615
Relinquished by:	**Date:**	**Time:**	**Received by:** [signature]	**Date:** 4/8/16	**Time:** ~~1815~~ 1508

P1601875

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/7/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Shannon Hill / Lucas Wallin

Rotameter: NA **Serial # :** NA **Expiration Date:** NA

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.10 ug/m³ 75			4/7	4/8			
			Avg:						
(2) 106-SU-1.	11	11	-27.5	-12	0728	1535	487		can #16962, gauge F213775 Room 2138 classroom 10
			Avg:				~~597~~ corr 4/7/16		
(3) 106-SU-2.	11	11	-30.0	-9	0746	1527			gauge at -2.5 before open
			Avg:				461		can #16682 gauge has no readable numbers
(4) 106-SU-3	11	11	-29	-11	0806	1545	459		gauge -.5 at open, MPR
			Avg:						can # 11451 gauge SN: F220876, Room 4-108, gauge at zero before opening
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

8 hour samples

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Relinquished by:	**Date:** 4/7/16	**Time:** 1626	**Received by:**	**Date:** 4/7/16	**Time:** 432
Relinquished by:	**Date:** 4/7/16	**Time:** 433	**Received by:**	**Date:** 4/8/16	**Time:** 950
Relinquished by:	**Date:** 4/8/16	**Time:** 1508	**Received by:**	**Date:** 4/8/16	**Time:** 1528

P1601875

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/6/16 - 4/7/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Shannan Hill, Ingrid Zobieta	
	Rotameter: NA	Serial # : NA	Expiration Date: NA

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Gauge Flow Rate (L/min) Pre	Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – SU (19-SU)	Summa	TO-15 0.16 ug/m³ 75			4/6	4/7			
			Avg:						
29-SU	11	11	-28.5	-11	1318	1254	1416		can 1347, gauge SN7772175 Inngroom, gauge at zero before opening
			Avg:						
38-SU-G	11	11			1410	1411	1		Dining Room
			Avg:						
25-SU-Ex+G	11	11			1345				6mb sample collected on 4/7/16 patio table can N0035
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, low level methods

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Relinquished by:	Date: 4/7/16	Time: 1626	Received by:		Date: 4/7/16	Time: 1836
Relinquished by:	Date: 4/7/16	Time: 1636	Received by:		Date: 4/8/16	Time: 950
Relinquished by:	Date: 4/8/16	Time: 1508	Received by:		Date: 4/8/16	Time: 1508

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601875

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601875-001.01	Canister					
P1601875-002.01	6.0 L Silonite Can					
P1601875-003.01	6.0 L Silonite Can					
P1601875-004.01	6.0 L Ambient Can					
P1601875-005.01	Canister					
P1601875-006.01	6.0 L Ambient Can					
P1601875-007.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00211

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.5**	1.1	0.31	**2.0**	0.65	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.1	0.38	**0.38**	0.23	0.077	
74-87-3	Chloromethane	**0.62**	0.45	0.31	**0.30**	0.22	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.43	ND	0.16	0.061	
75-01-4	Vinyl Chloride	ND	0.22	0.21	ND	0.088	0.083	
106-99-0	1,3-Butadiene	ND	0.45	0.31	ND	0.20	0.14	
74-83-9	Bromomethane	ND	0.45	0.21	ND	0.12	0.054	
75-00-3	Chloroethane	ND	0.45	0.19	ND	0.17	0.074	
64-17-5	Ethanol	**180**	11	1.8	**93**	5.9	0.95	
75-05-8	Acetonitrile	ND	1.1	0.40	ND	0.67	0.24	
107-02-8	Acrolein	**1.9**	4.5	0.38	**0.82**	2.0	0.17	**J**
67-64-1	Acetone	**27**	11	1.7	**11**	4.7	0.73	
75-69-4	Trichlorofluoromethane	**0.98**	0.22	0.13	**0.18**	0.040	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**5.2**	11	0.94	**2.1**	4.6	0.38	**J**
107-13-1	Acrylonitrile	ND	1.1	0.38	ND	0.52	0.18	
75-35-4	1,1-Dichloroethene	ND	0.22	0.21	ND	0.057	0.053	
75-09-2	Methylene Chloride	**9.4**	1.1	0.38	**2.7**	0.32	0.11	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.17	ND	0.072	0.054	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.22	0.18	**0.059**	0.029	0.023	
75-15-0	Carbon Disulfide	**0.66**	11	0.34	**0.21**	3.6	0.11	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.20	ND	0.057	0.051	
75-34-3	1,1-Dichloroethane	ND	0.22	0.18	ND	0.055	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	0.21	ND	0.062	0.058	
108-05-4	Vinyl Acetate	ND	11	1.5	ND	3.2	0.41	
78-93-3	2-Butanone (MEK)	**2.8**	11	0.47	**0.94**	3.8	0.16	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00211

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.21	ND	0.057	0.052	
141-78-6	Ethyl Acetate	**7.5**	2.2	0.78	**2.1**	0.62	0.22	
110-54-3	n-Hexane	**0.56**	1.1	0.34	**0.16**	0.32	0.095	**J**
67-66-3	Chloroform	ND	0.22	0.20	ND	0.046	0.041	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	0.45	ND	0.38	0.15	
107-06-2	1,2-Dichloroethane	**0.76**	0.22	0.14	**0.19**	0.055	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.17	ND	0.041	0.030	
71-43-2	Benzene	**0.61**	0.22	0.18	**0.19**	0.070	0.055	
56-23-5	Carbon Tetrachloride	**0.37**	0.22	0.19	**0.059**	0.036	0.031	
110-82-7	Cyclohexane	ND	2.2	0.65	ND	0.65	0.19	
78-87-5	1,2-Dichloropropane	ND	0.22	0.19	ND	0.048	0.040	
75-27-4	Bromodichloromethane	ND	0.22	0.15	ND	0.033	0.023	
79-01-6	Trichloroethene	ND	0.22	0.20	ND	0.042	0.037	
123-91-1	1,4-Dioxane	ND	1.1	0.36	ND	0.31	0.099	
80-62-6	Methyl Methacrylate	ND	2.2	0.69	ND	0.55	0.17	
142-82-5	n-Heptane	**0.41**	1.1	0.38	**0.099**	0.27	0.093	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.25	0.069	
108-10-1	4-Methyl-2-pentanone	**0.68**	1.1	0.36	**0.17**	0.27	0.087	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.36	ND	0.25	0.079	
79-00-5	1,1,2-Trichloroethane	ND	0.22	0.18	ND	0.041	0.033	
108-88-3	Toluene	**2.5**	1.1	0.38	**0.68**	0.30	0.10	
591-78-6	2-Hexanone	ND	1.1	0.36	ND	0.27	0.088	
124-48-1	Dibromochloromethane	ND	0.22	0.19	ND	0.026	0.022	
106-93-4	1,2-Dibromoethane	ND	0.22	0.19	ND	0.029	0.025	
123-86-4	n-Butyl Acetate	**1.2**	1.1	0.36	**0.25**	0.24	0.075	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00211

Date Collected: 4/6/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	0.40	ND	0.24	0.086	
127-18-4	Tetrachloroethene	**0.24**	0.22	0.16	**0.036**	0.033	0.024	
108-90-7	Chlorobenzene	ND	0.22	0.19	ND	0.049	0.040	
100-41-4	Ethylbenzene	**0.39**	1.1	0.36	**0.089**	0.26	0.083	**J**
179601-23-1	m,p-Xylenes	**0.98**	1.1	0.65	**0.23**	0.26	0.15	**J**
75-25-2	Bromoform	ND	1.1	0.34	ND	0.11	0.033	
100-42-5	Styrene	ND	1.1	0.34	ND	0.26	0.079	
95-47-6	o-Xylene	**0.39**	1.1	0.34	**0.089**	0.26	0.077	**J**
111-84-2	n-Nonane	ND	1.1	0.34	ND	0.21	0.064	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.19	ND	0.033	0.027	
98-82-8	Cumene	ND	1.1	0.34	ND	0.23	0.068	
80-56-8	alpha-Pinene	**0.74**	1.1	0.31	**0.13**	0.20	0.056	**J**
103-65-1	n-Propylbenzene	ND	1.1	0.36	ND	0.23	0.073	
622-96-8	4-Ethyltoluene	ND	1.1	0.36	ND	0.23	0.073	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.36	ND	0.23	0.073	
95-63-6	1,2,4-Trimethylbenzene	**0.43**	1.1	0.34	**0.088**	0.23	0.068	**J**
100-44-7	Benzyl Chloride	ND	1.1	0.25	ND	0.22	0.048	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.17	ND	0.037	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.17	ND	0.037	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.21	ND	0.037	0.035	
5989-27-5	d-Limonene	**2.2**	1.1	0.31	**0.40**	0.20	0.056	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.22	ND	0.12	0.023	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.36	ND	0.15	0.048	
91-20-3	Naphthalene	ND	1.1	0.40	ND	0.21	0.077	
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.11	0.029	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-001

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/6/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/11/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00211		

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.02	Sulfur Dioxide	**>89**	**!**

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00736

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.95

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.1**	0.98	0.27	**0.62**	0.57	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.98	0.33	**0.38**	0.20	0.067	
74-87-3	Chloromethane	**0.51**	0.39	0.27	**0.25**	0.19	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.98	0.37	ND	0.14	0.053	
75-01-4	Vinyl Chloride	ND	0.20	0.19	ND	0.076	0.072	
106-99-0	1,3-Butadiene	ND	0.39	0.27	ND	0.18	0.12	
74-83-9	Bromomethane	ND	0.39	0.18	ND	0.10	0.047	
75-00-3	Chloroethane	ND	0.39	0.17	ND	0.15	0.064	
64-17-5	Ethanol	**14**	9.8	1.6	**7.3**	5.2	0.83	
75-05-8	Acetonitrile	**1.6**	0.98	0.35	**0.96**	0.58	0.21	
107-02-8	Acrolein	ND	3.9	0.33	ND	1.7	0.14	
67-64-1	Acetone	**14**	9.8	1.5	**5.8**	4.1	0.63	
75-69-4	Trichlorofluoromethane	**1.0**	0.20	0.11	**0.19**	0.035	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.8**	9.8	0.82	**0.72**	4.0	0.33	**J**
107-13-1	Acrylonitrile	**0.96**	0.98	0.33	**0.44**	0.45	0.15	**J**
75-35-4	1,1-Dichloroethene	ND	0.20	0.18	ND	0.049	0.046	
75-09-2	Methylene Chloride	**33**	0.98	0.33	**9.6**	0.28	0.095	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	0.15	ND	0.062	0.047	
76-13-1	Trichlorotrifluoroethane	**0.47**	0.20	0.16	**0.062**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.8	0.29	ND	3.1	0.094	
156-60-5	trans-1,2-Dichloroethene	ND	0.20	0.18	ND	0.049	0.045	
75-34-3	1,1-Dichloroethane	ND	0.20	0.15	ND	0.048	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	0.18	ND	0.054	0.050	
108-05-4	Vinyl Acetate	ND	9.8	1.3	ND	2.8	0.36	
78-93-3	2-Butanone (MEK)	**1.2**	9.8	0.41	**0.41**	3.3	0.14	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00736

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.95

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.18	ND	0.049	0.045	
141-78-6	Ethyl Acetate	**3.5**	2.0	0.68	**0.97**	0.54	0.19	
110-54-3	n-Hexane	ND	0.98	0.29	ND	0.28	0.083	
67-66-3	Chloroform	ND	0.20	0.17	ND	0.040	0.036	
109-99-9	Tetrahydrofuran (THF)	ND	0.98	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	ND	0.20	0.12	ND	0.048	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.14	ND	0.036	0.026	
71-43-2	Benzene	**0.49**	0.20	0.15	**0.15**	0.061	0.048	
56-23-5	Carbon Tetrachloride	**0.36**	0.20	0.17	**0.057**	0.031	0.027	
110-82-7	Cyclohexane	ND	2.0	0.57	ND	0.57	0.16	
78-87-5	1,2-Dichloropropane	ND	0.20	0.16	ND	0.042	0.035	
75-27-4	Bromodichloromethane	ND	0.20	0.13	ND	0.029	0.020	
79-01-6	Trichloroethene	ND	0.20	0.17	ND	0.036	0.032	
123-91-1	1,4-Dioxane	ND	0.98	0.31	ND	0.27	0.087	
80-62-6	Methyl Methacrylate	ND	2.0	0.60	ND	0.48	0.15	
142-82-5	n-Heptane	ND	0.98	0.33	ND	0.24	0.081	
10061-01-5	cis-1,3-Dichloropropene	ND	0.98	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.98	0.31	ND	0.24	0.076	
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.31	ND	0.21	0.069	
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.16	ND	0.036	0.029	
108-88-3	Toluene	**1.3**	0.98	0.33	**0.34**	0.26	0.088	
591-78-6	2-Hexanone	ND	0.98	0.31	ND	0.24	0.076	
124-48-1	Dibromochloromethane	ND	0.20	0.17	ND	0.023	0.019	
106-93-4	1,2-Dibromoethane	ND	0.20	0.17	ND	0.025	0.022	
123-86-4	n-Butyl Acetate	**0.36**	0.98	0.31	**0.077**	0.21	0.066	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00736

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.95

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.98	0.35	ND	0.21	0.075	
127-18-4	Tetrachloroethene	ND	0.20	0.14	ND	0.029	0.021	
108-90-7	Chlorobenzene	ND	0.20	0.16	ND	0.042	0.035	
100-41-4	Ethylbenzene	ND	0.98	0.31	ND	0.22	0.072	
179601-23-1	m,p-Xylenes	ND	0.98	0.57	ND	0.22	0.13	
75-25-2	Bromoform	ND	0.98	0.29	ND	0.094	0.028	
100-42-5	Styrene	ND	0.98	0.29	ND	0.23	0.069	
95-47-6	o-Xylene	ND	0.98	0.29	ND	0.22	0.067	
111-84-2	n-Nonane	ND	0.98	0.29	ND	0.19	0.056	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.16	ND	0.028	0.024	
98-82-8	Cumene	ND	0.98	0.29	ND	0.20	0.060	
80-56-8	alpha-Pinene	ND	0.98	0.27	ND	0.18	0.049	
103-65-1	n-Propylbenzene	ND	0.98	0.31	ND	0.20	0.063	
622-96-8	4-Ethyltoluene	ND	0.98	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.98	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	ND	0.98	0.29	ND	0.20	0.060	
100-44-7	Benzyl Chloride	ND	0.98	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.20	0.14	ND	0.032	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.20	0.15	ND	0.032	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.20	0.18	ND	0.032	0.030	
5989-27-5	d-Limonene	ND	0.98	0.27	ND	0.18	0.049	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.98	0.19	ND	0.10	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	0.98	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.98	0.35	ND	0.19	0.067	
87-68-3	Hexachlorobutadiene	ND	0.98	0.27	ND	0.091	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-002

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/7/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/11/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00736		

Initial Pressure (psig): -5.13 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.95

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.01	Sulfur Dioxide	**>22**	**!**
9.89	Trimethylsilanol	**43**	
17.06	Hexamethylcyclotrisiloxane	**57**	
20.06	Unidentified Siloxane	**52**	
20.09	Unidentified Siloxane	**34**	
21.99	Unidentified Siloxane	**51**	

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS00725

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.07 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.2**	0.87	0.24	**1.9**	0.51	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.87	0.30	**0.39**	0.18	0.060	
74-87-3	Chloromethane	**0.62**	0.35	0.24	**0.30**	0.17	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.87	0.33	ND	0.12	0.047	
75-01-4	Vinyl Chloride	ND	0.17	0.17	ND	0.068	0.065	
106-99-0	1,3-Butadiene	ND	0.35	0.24	ND	0.16	0.11	
74-83-9	Bromomethane	ND	0.35	0.16	ND	0.090	0.042	
75-00-3	Chloroethane	ND	0.35	0.15	ND	0.13	0.057	
64-17-5	Ethanol	**14**	8.7	1.4	**7.7**	4.6	0.74	
75-05-8	Acetonitrile	**0.75**	0.87	0.31	**0.45**	0.52	0.19	**J**
107-02-8	Acrolein	**0.30**	3.5	0.30	**0.13**	1.5	0.13	**J**
67-64-1	Acetone	**18**	8.7	1.3	**7.6**	3.7	0.56	
75-69-4	Trichlorofluoromethane	**1.0**	0.17	0.099	**0.18**	0.031	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	**6.6**	8.7	0.73	**2.7**	3.5	0.30	**J**
107-13-1	Acrylonitrile	**0.34**	0.87	0.30	**0.16**	0.40	0.14	**J**
75-35-4	1,1-Dichloroethene	ND	0.17	0.16	ND	0.044	0.041	
75-09-2	Methylene Chloride	**24**	0.87	0.30	**6.9**	0.25	0.085	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.13	ND	0.056	0.042	
76-13-1	Trichlorotrifluoroethane	**0.50**	0.17	0.14	**0.065**	0.023	0.018	
75-15-0	Carbon Disulfide	ND	8.7	0.26	ND	2.8	0.084	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.16	ND	0.044	0.040	
75-34-3	1,1-Dichloroethane	ND	0.17	0.14	ND	0.043	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.16	ND	0.048	0.045	
108-05-4	Vinyl Acetate	ND	8.7	1.1	ND	2.5	0.32	
78-93-3	2-Butanone (MEK)	**1.6**	8.7	0.37	**0.54**	3.0	0.12	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00725

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.07 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.16	ND	0.044	0.040	
141-78-6	Ethyl Acetate	**1.3**	1.7	0.61	**0.35**	0.48	0.17	**J**
110-54-3	n-Hexane	**0.36**	0.87	0.26	**0.10**	0.25	0.074	**J**
67-66-3	Chloroform	**0.16**	0.17	0.15	**0.033**	0.036	0.032	**J**
109-99-9	Tetrahydrofuran (THF)	ND	0.87	0.35	ND	0.30	0.12	
107-06-2	1,2-Dichloroethane	ND	0.17	0.11	ND	0.043	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.13	ND	0.032	0.024	
71-43-2	Benzene	**0.66**	0.17	0.14	**0.21**	0.054	0.043	
56-23-5	Carbon Tetrachloride	**0.35**	0.17	0.15	**0.056**	0.028	0.024	
110-82-7	Cyclohexane	ND	1.7	0.50	ND	0.51	0.15	
78-87-5	1,2-Dichloropropane	ND	0.17	0.14	ND	0.038	0.031	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.018	
79-01-6	Trichloroethene	ND	0.17	0.15	ND	0.032	0.029	
123-91-1	1,4-Dioxane	ND	0.87	0.28	ND	0.24	0.077	
80-62-6	Methyl Methacrylate	ND	1.7	0.54	ND	0.43	0.13	
142-82-5	n-Heptane	ND	0.87	0.30	ND	0.21	0.072	
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.24	ND	0.19	0.054	
108-10-1	4-Methyl-2-pentanone	ND	0.87	0.28	ND	0.21	0.068	
10061-02-6	trans-1,3-Dichloropropene	ND	0.87	0.28	ND	0.19	0.061	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.14	ND	0.032	0.026	
108-88-3	Toluene	**1.9**	0.87	0.30	**0.51**	0.23	0.079	
591-78-6	2-Hexanone	ND	0.87	0.28	ND	0.21	0.068	
124-48-1	Dibromochloromethane	ND	0.17	0.15	ND	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.17	0.15	ND	0.023	0.019	
123-86-4	n-Butyl Acetate	ND	0.87	0.28	ND	0.18	0.059	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00725

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.07 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.87	0.31	ND	0.19	0.067	
127-18-4	Tetrachloroethene	ND	0.17	0.13	ND	0.026	0.018	
108-90-7	Chlorobenzene	ND	0.17	0.14	ND	0.038	0.031	
100-41-4	Ethylbenzene	ND	0.87	0.28	ND	0.20	0.064	
179601-23-1	m,p-Xylenes	**0.52**	0.87	0.50	**0.12**	0.20	0.12	**J**
75-25-2	Bromoform	ND	0.87	0.26	ND	0.084	0.025	
100-42-5	Styrene	ND	0.87	0.26	ND	0.20	0.061	
95-47-6	o-Xylene	ND	0.87	0.26	ND	0.20	0.060	
111-84-2	n-Nonane	ND	0.87	0.26	ND	0.17	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.15	ND	0.025	0.021	
98-82-8	Cumene	ND	0.87	0.26	ND	0.18	0.053	
80-56-8	alpha-Pinene	ND	0.87	0.24	ND	0.16	0.044	
103-65-1	n-Propylbenzene	ND	0.87	0.28	ND	0.18	0.057	
622-96-8	4-Ethyltoluene	ND	0.87	0.28	ND	0.18	0.057	
108-67-8	1,3,5-Trimethylbenzene	ND	0.87	0.28	ND	0.18	0.057	
95-63-6	1,2,4-Trimethylbenzene	ND	0.87	0.26	ND	0.18	0.053	
100-44-7	Benzyl Chloride	ND	0.87	0.19	ND	0.17	0.037	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.13	ND	0.029	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.17	0.13	ND	0.029	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.16	ND	0.029	0.027	
5989-27-5	d-Limonene	**0.64**	0.87	0.24	**0.11**	0.16	0.044	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.87	0.17	ND	0.090	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	0.87	0.28	ND	0.12	0.038	
91-20-3	Naphthalene	ND	0.87	0.31	ND	0.17	0.060	
87-68-3	Hexachlorobutadiene	ND	0.87	0.24	ND	0.082	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-003

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/7/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/11/16
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	AS00725		

Initial Pressure (psig): -4.07 Final Pressure (psig): 3.78

Canister Dilution Factor: 1.74

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
9.89	Trimethylsilanol	**47**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC01860

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.77 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.1**	0.94	0.26	**0.61**	0.55	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.94	0.32	**0.39**	0.19	0.065	
74-87-3	Chloromethane	**0.59**	0.38	0.26	**0.29**	0.18	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.94	0.36	ND	0.13	0.051	
75-01-4	Vinyl Chloride	ND	0.19	0.18	ND	0.074	0.070	
106-99-0	1,3-Butadiene	ND	0.38	0.26	ND	0.17	0.12	
74-83-9	Bromomethane	ND	0.38	0.17	ND	0.097	0.045	
75-00-3	Chloroethane	ND	0.38	0.16	ND	0.14	0.062	
64-17-5	Ethanol	**14**	9.4	1.5	**7.6**	5.0	0.80	
75-05-8	Acetonitrile	ND	0.94	0.34	ND	0.56	0.20	
107-02-8	Acrolein	ND	3.8	0.32	ND	1.6	0.14	
67-64-1	Acetone	**10**	9.4	1.4	**4.4**	4.0	0.61	
75-69-4	Trichlorofluoromethane	**1.1**	0.19	0.11	**0.19**	0.033	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	**0.93**	9.4	0.79	**0.38**	3.8	0.32	**J**
107-13-1	Acrylonitrile	ND	0.94	0.32	ND	0.43	0.15	
75-35-4	1,1-Dichloroethene	ND	0.19	0.17	ND	0.047	0.044	
75-09-2	Methylene Chloride	**24**	0.94	0.32	**7.0**	0.27	0.092	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.19	0.14	ND	0.060	0.046	
76-13-1	Trichlorotrifluoroethane	**0.54**	0.19	0.15	**0.071**	0.025	0.020	
75-15-0	Carbon Disulfide	ND	9.4	0.28	ND	3.0	0.091	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.043	
75-34-3	1,1-Dichloroethane	ND	0.19	0.15	ND	0.046	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.19	0.17	ND	0.052	0.049	
108-05-4	Vinyl Acetate	ND	9.4	1.2	ND	2.7	0.35	
78-93-3	2-Butanone (MEK)	**0.69**	9.4	0.39	**0.23**	3.2	0.13	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01860

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.77 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.17	ND	0.047	0.044	
141-78-6	Ethyl Acetate	**1.3**	1.9	0.66	**0.36**	0.52	0.18	**J**
110-54-3	n-Hexane	ND	0.94	0.28	ND	0.27	0.080	
67-66-3	Chloroform	ND	0.19	0.17	ND	0.039	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.94	0.38	ND	0.32	0.13	
107-06-2	1,2-Dichloroethane	ND	0.19	0.12	ND	0.046	0.029	
71-55-6	1,1,1-Trichloroethane	ND	0.19	0.14	ND	0.034	0.026	
71-43-2	Benzene	**0.28**	0.19	0.15	**0.089**	0.059	0.047	
56-23-5	Carbon Tetrachloride	**0.40**	0.19	0.16	**0.063**	0.030	0.026	
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.55	0.16	
78-87-5	1,2-Dichloropropane	ND	0.19	0.16	ND	0.041	0.034	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.19	0.17	ND	0.035	0.031	
123-91-1	1,4-Dioxane	ND	0.94	0.30	ND	0.26	0.084	
80-62-6	Methyl Methacrylate	ND	1.9	0.58	ND	0.46	0.14	
142-82-5	n-Heptane	ND	0.94	0.32	ND	0.23	0.078	
10061-01-5	cis-1,3-Dichloropropene	ND	0.94	0.26	ND	0.21	0.058	
108-10-1	4-Methyl-2-pentanone	ND	0.94	0.30	ND	0.23	0.073	
10061-02-6	trans-1,3-Dichloropropene	ND	0.94	0.30	ND	0.21	0.066	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.15	ND	0.034	0.028	
108-88-3	Toluene	**0.69**	0.94	0.32	**0.18**	0.25	0.085	**J**
591-78-6	2-Hexanone	ND	0.94	0.30	ND	0.23	0.073	
124-48-1	Dibromochloromethane	ND	0.19	0.16	ND	0.022	0.019	
106-93-4	1,2-Dibromoethane	ND	0.19	0.16	ND	0.024	0.021	
123-86-4	n-Butyl Acetate	ND	0.94	0.30	ND	0.20	0.063	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01860

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.77 Final Pressure (psig): 3.99

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.94	0.34	ND	0.20	0.072	
127-18-4	Tetrachloroethene	ND	0.19	0.14	ND	0.028	0.020	
108-90-7	Chlorobenzene	ND	0.19	0.16	ND	0.041	0.034	
100-41-4	Ethylbenzene	ND	0.94	0.30	ND	0.22	0.069	
179601-23-1	m,p-Xylenes	ND	0.94	0.55	ND	0.22	0.13	
75-25-2	Bromoform	ND	0.94	0.28	ND	0.091	0.027	
100-42-5	Styrene	ND	0.94	0.28	ND	0.22	0.066	
95-47-6	o-Xylene	ND	0.94	0.28	ND	0.22	0.065	
111-84-2	n-Nonane	ND	0.94	0.28	ND	0.18	0.054	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.16	ND	0.027	0.023	
98-82-8	Cumene	ND	0.94	0.28	ND	0.19	0.057	
80-56-8	alpha-Pinene	ND	0.94	0.26	ND	0.17	0.047	
103-65-1	n-Propylbenzene	ND	0.94	0.30	ND	0.19	0.061	
622-96-8	4-Ethyltoluene	ND	0.94	0.30	ND	0.19	0.061	
108-67-8	1,3,5-Trimethylbenzene	ND	0.94	0.30	ND	0.19	0.061	
95-63-6	1,2,4-Trimethylbenzene	ND	0.94	0.28	ND	0.19	0.057	
100-44-7	Benzyl Chloride	ND	0.94	0.21	ND	0.18	0.040	
541-73-1	1,3-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.19	0.14	ND	0.031	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.19	0.17	ND	0.031	0.029	
5989-27-5	d-Limonene	ND	0.94	0.26	ND	0.17	0.047	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.94	0.19	ND	0.097	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	0.94	0.30	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.94	0.34	ND	0.18	0.065	
87-68-3	Hexachlorobutadiene	ND	0.94	0.26	ND	0.088	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00208

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.76 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**3.1**	1.0	0.29	**1.8**	0.60	0.17	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	1.0	0.35	**0.38**	0.21	0.071	
74-87-3	Chloromethane	**0.62**	0.41	0.29	**0.30**	0.20	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	0.21	0.19	ND	0.080	0.076	
106-99-0	1,3-Butadiene	ND	0.41	0.29	ND	0.19	0.13	
74-83-9	Bromomethane	ND	0.41	0.19	ND	0.11	0.049	
75-00-3	Chloroethane	ND	0.41	0.18	ND	0.16	0.068	
64-17-5	Ethanol	**18**	10	1.6	**9.6**	5.4	0.87	
75-05-8	Acetonitrile	ND	1.0	0.37	ND	0.61	0.22	
107-02-8	Acrolein	**1.8**	4.1	0.35	**0.77**	1.8	0.15	**J**
67-64-1	Acetone	**23**	10	1.6	**9.8**	4.3	0.66	
75-69-4	Trichlorofluoromethane	**0.98**	0.21	0.12	**0.18**	0.036	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**4.4**	10	0.86	**1.8**	4.2	0.35	**J**
107-13-1	Acrylonitrile	ND	1.0	0.35	ND	0.47	0.16	
75-35-4	1,1-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
75-09-2	Methylene Chloride	**16**	1.0	0.35	**4.5**	0.30	0.10	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.21	0.16	ND	0.066	0.050	
76-13-1	Trichlorotrifluoroethane	**0.46**	0.21	0.16	**0.059**	0.027	0.021	
75-15-0	Carbon Disulfide	**0.92**	10	0.31	**0.29**	3.3	0.099	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.047	
75-34-3	1,1-Dichloroethane	ND	0.21	0.16	ND	0.051	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.21	0.19	ND	0.057	0.053	
108-05-4	Vinyl Acetate	**1.9**	10	1.3	**0.54**	2.9	0.38	**J**
78-93-3	2-Butanone (MEK)	**4.5**	10	0.43	**1.5**	3.5	0.15	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00208

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.76 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.19	ND	0.052	0.048	
141-78-6	Ethyl Acetate	**2.0**	2.1	0.72	**0.55**	0.57	0.20	**J**
110-54-3	n-Hexane	**0.40**	1.0	0.31	**0.11**	0.29	0.087	**J**
67-66-3	Chloroform	**0.19**	0.21	0.18	**0.040**	0.042	0.037	**J**
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	**0.72**	0.21	0.13	**0.18**	0.051	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.21	0.15	ND	0.038	0.028	
71-43-2	Benzene	**0.59**	0.21	0.16	**0.18**	0.064	0.051	
56-23-5	Carbon Tetrachloride	**0.39**	0.21	0.18	**0.061**	0.033	0.028	
110-82-7	Cyclohexane	ND	2.1	0.59	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	0.21	0.17	ND	0.044	0.037	
75-27-4	Bromodichloromethane	ND	0.21	0.14	ND	0.031	0.021	
79-01-6	Trichloroethene	ND	0.21	0.18	ND	0.038	0.034	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.28	0.091	
80-62-6	Methyl Methacrylate	ND	2.1	0.64	ND	0.50	0.16	
142-82-5	n-Heptane	ND	1.0	0.35	ND	0.25	0.085	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.063	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.33	ND	0.25	0.080	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.072	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.16	ND	0.038	0.030	
108-88-3	Toluene	**2.0**	1.0	0.35	**0.54**	0.27	0.093	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.25	0.080	
124-48-1	Dibromochloromethane	ND	0.21	0.17	ND	0.024	0.020	
106-93-4	1,2-Dibromoethane	ND	0.21	0.17	ND	0.027	0.023	
123-86-4	n-Butyl Acetate	**1.7**	1.0	0.33	**0.35**	0.22	0.069	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Container ID: CC00208

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.76 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.05

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.0	0.37	ND	0.22	0.079	
127-18-4	Tetrachloroethene	**0.81**	0.21	0.15	**0.12**	0.030	0.022	
108-90-7	Chlorobenzene	ND	0.21	0.17	ND	0.045	0.037	
100-41-4	Ethylbenzene	ND	1.0	0.33	ND	0.24	0.076	
179601-23-1	m,p-Xylenes	**0.76**	1.0	0.59	**0.18**	0.24	0.14	**J**
75-25-2	Bromoform	ND	1.0	0.31	ND	0.099	0.030	
100-42-5	Styrene	**0.75**	1.0	0.31	**0.18**	0.24	0.072	**J**
95-47-6	o-Xylene	ND	1.0	0.31	ND	0.24	0.071	
111-84-2	n-Nonane	ND	1.0	0.31	ND	0.20	0.059	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.17	ND	0.030	0.025	
98-82-8	Cumene	**31**	1.0	0.31	**6.3**	0.21	0.063	
80-56-8	alpha-Pinene	**3.3**	1.0	0.29	**0.59**	0.18	0.052	
103-65-1	n-Propylbenzene	ND	1.0	0.33	ND	0.21	0.067	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.31	ND	0.21	0.063	
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.15	ND	0.034	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.16	ND	0.034	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.19	ND	0.034	0.032	
5989-27-5	d-Limonene	**2.4**	1.0	0.29	**0.43**	0.18	0.052	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.20	ND	0.11	0.021	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.044	
91-20-3	Naphthalene	**0.68**	1.0	0.37	**0.13**	0.20	0.070	**J**
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.096	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-005

Tentatively Identified Compounds

Test Code:	EPA TO-15	Date Collected:	4/7/16
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	4/8/16
Analyst:	Evelyn Alvarez	Date Analyzed:	4/11/16
Sample Type:	Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:	**T**		
Container ID:	CC00208		

Initial Pressure (psig): -5.76 Final Pressure (psig): 3.63

Canister Dilution Factor: 2.05

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
4.02	Sulfur Dioxide	**>43**	**!**
19.86	alpha-Methylstyrene	**160**	
20.86	Acetophenone	**110**	
21.13	alpha-Cumyl Alcohol	**410**	

T = Analyte is a tentatively identified compound, result is estimated.

! = Previous studies have shown that EPA Method TO-15 is not an appropriate method for quantifying Sulfur Dioxide. The TIC result for this compound is reported as "greater than" since the numeric value is probably biased low.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02089

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.46 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**0.83**	0.65	0.18	**0.48**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**1.9**	0.65	0.22	**0.38**	0.13	0.044	
74-87-3	Chloromethane	**0.53**	0.26	0.18	**0.25**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	0.25	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.082	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.098	0.043	
64-17-5	Ethanol	**14**	6.5	1.0	**7.4**	3.4	0.55	
75-05-8	Acetonitrile	**0.28**	0.65	0.23	**0.17**	0.38	0.14	**J**
107-02-8	Acrolein	ND	2.6	0.22	ND	1.1	0.096	
67-64-1	Acetone	**2.8**	6.5	0.99	**1.2**	2.7	0.42	**J**
75-69-4	Trichlorofluoromethane	**0.34**	0.13	0.074	**0.060**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	6.5	0.54	ND	2.6	0.22	
107-13-1	Acrylonitrile	ND	0.65	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-09-2	Methylene Chloride	**0.79**	0.65	0.22	**0.23**	0.19	0.063	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.098	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	ND	0.13	0.10	ND	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.5	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	ND	6.5	0.84	ND	1.8	0.24	
78-93-3	2-Butanone (MEK)	ND	6.5	0.27	ND	2.2	0.092	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02089

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.46 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	ND	1.3	0.45	ND	0.36	0.13	
110-54-3	n-Hexane	ND	0.65	0.19	ND	0.18	0.055	
67-66-3	Chloroform	ND	0.13	0.11	ND	0.026	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	0.26	ND	0.22	0.088	
107-06-2	1,2-Dichloroethane	ND	0.13	0.080	ND	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.024	0.018	
71-43-2	Benzene	ND	0.13	0.10	ND	0.040	0.032	
56-23-5	Carbon Tetrachloride	ND	0.13	0.11	ND	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.088	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.65	0.21	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.32	0.098	
142-82-5	n-Heptane	ND	0.65	0.22	ND	0.16	0.054	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	ND	0.65	0.21	ND	0.16	0.050	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	0.21	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	ND	0.65	0.22	ND	0.17	0.058	
591-78-6	2-Hexanone	ND	0.65	0.21	ND	0.16	0.050	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	ND	0.65	0.21	ND	0.14	0.043	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02089

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.46 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.65	0.23	ND	0.14	0.050	
127-18-4	Tetrachloroethene	ND	0.13	0.093	ND	0.019	0.014	
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	ND	0.65	0.21	ND	0.15	0.048	
179601-23-1	m,p-Xylenes	ND	0.65	0.37	ND	0.15	0.086	
75-25-2	Bromoform	ND	0.65	0.19	ND	0.062	0.019	
100-42-5	Styrene	ND	0.65	0.19	ND	0.15	0.045	
95-47-6	o-Xylene	ND	0.65	0.19	ND	0.15	0.045	
111-84-2	n-Nonane	ND	0.65	0.19	ND	0.12	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.65	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	ND	0.65	0.18	ND	0.12	0.032	
103-65-1	n-Propylbenzene	ND	0.65	0.21	ND	0.13	0.042	
622-96-8	4-Ethyltoluene	ND	0.65	0.21	ND	0.13	0.042	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	0.21	ND	0.13	0.042	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	0.19	ND	0.13	0.039	
100-44-7	Benzyl Chloride	ND	0.65	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.098	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	ND	0.65	0.18	ND	0.12	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	0.13	ND	0.067	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	0.21	ND	0.087	0.028	
91-20-3	Naphthalene	ND	0.65	0.23	ND	0.12	0.044	
87-68-3	Hexachlorobutadiene	ND	0.65	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: 6.0 L Summa Canister
Test Notes:
Container ID: AC02064

Date Collected: 4/7/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.97

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**1.3**	0.65	0.18	**0.76**	0.37	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.65	0.22	**0.40**	0.13	0.044	
74-87-3	Chloromethane	**0.53**	0.26	0.18	**0.26**	0.12	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	0.25	ND	0.092	0.035	
75-01-4	Vinyl Chloride	ND	0.13	0.12	ND	0.050	0.048	
106-99-0	1,3-Butadiene	ND	0.26	0.18	ND	0.12	0.082	
74-83-9	Bromomethane	ND	0.26	0.12	ND	0.066	0.031	
75-00-3	Chloroethane	ND	0.26	0.11	ND	0.098	0.043	
64-17-5	Ethanol	**15**	6.5	1.0	**8.1**	3.4	0.55	
75-05-8	Acetonitrile	**0.28**	0.65	0.23	**0.17**	0.38	0.14	**J**
107-02-8	Acrolein	**0.37**	2.6	0.22	**0.16**	1.1	0.096	**J**
67-64-1	Acetone	**16**	6.5	0.99	**6.9**	2.7	0.42	
75-69-4	Trichlorofluoromethane	**1.0**	0.13	0.074	**0.18**	0.023	0.013	
67-63-0	2-Propanol (Isopropyl Alcohol)	**1.1**	6.5	0.54	**0.45**	2.6	0.22	**J**
107-13-1	Acrylonitrile	ND	0.65	0.22	ND	0.30	0.10	
75-35-4	1,1-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-09-2	Methylene Chloride	**0.72**	0.65	0.22	**0.21**	0.19	0.063	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	0.098	ND	0.041	0.031	
76-13-1	Trichlorotrifluoroethane	**0.48**	0.13	0.10	**0.062**	0.017	0.013	
75-15-0	Carbon Disulfide	ND	6.5	0.19	ND	2.1	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
75-34-3	1,1-Dichloroethane	ND	0.13	0.10	ND	0.032	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	0.12	ND	0.036	0.033	
108-05-4	Vinyl Acetate	ND	6.5	0.84	ND	1.8	0.24	
78-93-3	2-Butanone (MEK)	**1.4**	6.5	0.27	**0.46**	2.2	0.092	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02064

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.97

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.12	ND	0.033	0.030	
141-78-6	Ethyl Acetate	ND	1.3	0.45	ND	0.36	0.13	
110-54-3	n-Hexane	**0.54**	0.65	0.19	**0.15**	0.18	0.055	**J**
67-66-3	Chloroform	**0.36**	0.13	0.11	**0.073**	0.026	0.024	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	0.26	ND	0.22	0.088	
107-06-2	1,2-Dichloroethane	ND	0.13	0.080	ND	0.032	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.095	ND	0.024	0.018	
71-43-2	Benzene	**0.66**	0.13	0.10	**0.21**	0.040	0.032	
56-23-5	Carbon Tetrachloride	**0.39**	0.13	0.11	**0.061**	0.021	0.018	
110-82-7	Cyclohexane	ND	1.3	0.37	ND	0.37	0.11	
78-87-5	1,2-Dichloropropane	ND	0.13	0.11	ND	0.028	0.023	
75-27-4	Bromodichloromethane	ND	0.13	0.088	ND	0.019	0.013	
79-01-6	Trichloroethene	ND	0.13	0.11	ND	0.024	0.021	
123-91-1	1,4-Dioxane	ND	0.65	0.21	ND	0.18	0.057	
80-62-6	Methyl Methacrylate	ND	1.3	0.40	ND	0.32	0.098	
142-82-5	n-Heptane	**0.31**	0.65	0.22	**0.076**	0.16	0.054	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	0.18	ND	0.14	0.040	
108-10-1	4-Methyl-2-pentanone	ND	0.65	0.21	ND	0.16	0.050	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	0.21	ND	0.14	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.10	ND	0.024	0.019	
108-88-3	Toluene	**1.7**	0.65	0.22	**0.45**	0.17	0.058	
591-78-6	2-Hexanone	ND	0.65	0.21	ND	0.16	0.050	
124-48-1	Dibromochloromethane	ND	0.13	0.11	ND	0.015	0.013	
106-93-4	1,2-Dibromoethane	ND	0.13	0.11	ND	0.017	0.014	
123-86-4	n-Butyl Acetate	**0.42**	0.65	0.21	**0.089**	0.14	0.043	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02064

Date Collected: 4/7/16

Date Received: 4/8/16

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.26 Final Pressure (psig): 3.97

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.65	0.23	ND	0.14	0.050	
127-18-4	Tetrachloroethene	**0.13**	0.13	0.093	**0.019**	0.019	0.014	**J**
108-90-7	Chlorobenzene	ND	0.13	0.11	ND	0.028	0.023	
100-41-4	Ethylbenzene	**0.27**	0.65	0.21	**0.063**	0.15	0.048	**J**
179601-23-1	m,p-Xylenes	**0.74**	0.65	0.37	**0.17**	0.15	0.086	
75-25-2	Bromoform	ND	0.65	0.19	ND	0.062	0.019	
100-42-5	Styrene	ND	0.65	0.19	ND	0.15	0.045	
95-47-6	o-Xylene	**0.30**	0.65	0.19	**0.070**	0.15	0.045	**J**
111-84-2	n-Nonane	ND	0.65	0.19	ND	0.12	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.11	ND	0.019	0.016	
98-82-8	Cumene	ND	0.65	0.19	ND	0.13	0.039	
80-56-8	alpha-Pinene	**0.30**	0.65	0.18	**0.053**	0.12	0.032	**J**
103-65-1	n-Propylbenzene	ND	0.65	0.21	ND	0.13	0.042	
622-96-8	4-Ethyltoluene	ND	0.65	0.21	ND	0.13	0.042	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	0.21	ND	0.13	0.042	
95-63-6	1,2,4-Trimethylbenzene	**0.22**	0.65	0.19	**0.044**	0.13	0.039	**J**
100-44-7	Benzyl Chloride	ND	0.65	0.14	ND	0.12	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.13	0.095	ND	0.021	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.13	0.098	ND	0.021	0.016	
95-50-1	1,2-Dichlorobenzene	ND	0.13	0.12	ND	0.021	0.020	
5989-27-5	d-Limonene	ND	0.65	0.18	ND	0.12	0.032	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	0.13	ND	0.067	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	0.21	ND	0.087	0.028	
91-20-3	Naphthalene	ND	0.65	0.23	ND	0.12	0.044	
87-68-3	Hexachlorobutadiene	ND	0.65	0.18	ND	0.060	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.20	0.14	ND	0.097	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.10	0.095	ND	0.039	0.037	
106-99-0	1,3-Butadiene	ND	0.20	0.14	ND	0.090	0.063	
74-83-9	Bromomethane	ND	0.20	0.093	ND	0.052	0.024	
75-00-3	Chloroethane	ND	0.20	0.087	ND	0.076	0.033	
64-17-5	Ethanol	ND	5.0	0.80	ND	2.7	0.42	
75-05-8	Acetonitrile	ND	0.50	0.18	ND	0.30	0.11	
107-02-8	Acrolein	ND	2.0	0.17	ND	0.87	0.074	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane	ND	0.10	0.057	ND	0.018	0.010	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
107-13-1	Acrylonitrile	ND	0.50	0.17	ND	0.23	0.078	
75-35-4	1,1-Dichloroethene	ND	0.10	0.093	ND	0.025	0.023	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.076	ND	0.032	0.024	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.080	ND	0.013	0.010	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.091	ND	0.025	0.023	
75-34-3	1,1-Dichloroethane	ND	0.10	0.079	ND	0.025	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.093	ND	0.028	0.026	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.092	ND	0.025	0.023	
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.10	0.089	ND	0.020	0.018	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.10	0.062	ND	0.025	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.074	ND	0.018	0.014	
71-43-2	Benzene	ND	0.10	0.079	ND	0.031	0.025	
56-23-5	Carbon Tetrachloride	ND	0.10	0.086	ND	0.016	0.014	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.10	0.083	ND	0.022	0.018	
75-27-4	Bromodichloromethane	ND	0.10	0.068	ND	0.015	0.010	
79-01-6	Trichloroethene	ND	0.10	0.089	ND	0.019	0.017	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
80-62-6	Methyl Methacrylate	ND	1.0	0.31	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.080	ND	0.018	0.015	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.10	0.085	ND	0.012	0.010	
106-93-4	1,2-Dibromoethane	ND	0.10	0.085	ND	0.013	0.011	
123-86-4	n-Butyl Acetate	ND	0.50	0.16	ND	0.11	0.034	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P160411-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	0.18	ND	0.11	0.039	
127-18-4	Tetrachloroethene	ND	0.10	0.072	ND	0.015	0.011	
108-90-7	Chlorobenzene	ND	0.10	0.083	ND	0.022	0.018	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	0.50	0.29	ND	0.12	0.067	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
111-84-2	n-Nonane	ND	0.50	0.15	ND	0.095	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.084	ND	0.015	0.012	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
80-56-8	alpha-Pinene	ND	0.50	0.14	ND	0.090	0.025	
103-65-1	n-Propylbenzene	ND	0.50	0.16	ND	0.10	0.033	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.074	ND	0.017	0.012	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.076	ND	0.017	0.013	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.093	ND	0.017	0.015	
5989-27-5	d-Limonene	ND	0.50	0.14	ND	0.090	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.099	ND	0.052	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P160411-MB

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Evelyn Alvarez

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/11/16

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	**Compound Identification**	**Concentration µg/m³**	**Data Qualifier**
	No Compounds Detected		

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Leighton Consulting, Inc.**
Client Project ID: **Aliso Canyon / 603287048** ALS Project ID: P1601875

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 4/6 - 4/7/16
Analyst: Evelyn Alvarez Date(s) Received: 4/8/16
Sample Type: Canister(s) Date(s) Analyzed: 4/11/16
Test Notes:

	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
[redacted]	P160411-MB	**97**	**100**	**101**	70-130	
	P160411-LCS	**96**	**98**	**104**	70-130	
	P1601875-001	**97**	**98**	**102**	70-130	
	P1601875-001DUP	**96**	**98**	**102**	70-130	
	P1601875-002	**97**	**98**	**102**	70-130	
	P1601875-003	**97**	**98**	**101**	70-130	
	P1601875-004	**98**	**99**	**103**	70-130	
	P1601875-005	**98**	**98**	**102**	70-130	
	P1601875-006	**98**	**99**	**101**	70-130	
	P1601875-007	**98**	**98**	**101**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P160411-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
115-07-1	Propene	196	**161**	**82**	49-131	
75-71-8	Dichlorodifluoromethane (CFC 12)	188	**143**	**76**	65-117	
74-87-3	Chloromethane	200	**173**	**87**	48-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	204	**154**	**75**	65-122	
75-01-4	Vinyl Chloride	200	**169**	**85**	65-128	
106-99-0	1,3-Butadiene	206	**188**	**91**	62-143	
74-83-9	Bromomethane	202	**171**	**85**	65-130	
75-00-3	Chloroethane	200	**172**	**86**	69-126	
64-17-5	Ethanol	998	**878**	**88**	57-126	
75-05-8	Acetonitrile	212	**181**	**85**	51-134	
107-02-8	Acrolein	214	**195**	**91**	55-146	
67-64-1	Acetone	1,080	**1010**	**94**	57-120	
75-69-4	Trichlorofluoromethane	216	**153**	**71**	59-139	
67-63-0	2-Propanol (Isopropyl Alcohol)	418	**388**	**93**	59-129	
107-13-1	Acrylonitrile	212	**209**	**99**	64-136	
75-35-4	1,1-Dichloroethene	216	**193**	**89**	72-123	
75-09-2	Methylene Chloride	222	**178**	**80**	63-117	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	218	**203**	**93**	50-141	
76-13-1	Trichlorotrifluoroethane	220	**186**	**85**	68-118	
75-15-0	Carbon Disulfide	210	**148**	**70**	55-143	
156-60-5	trans-1,2-Dichloroethene	210	**203**	**97**	69-129	
75-34-3	1,1-Dichloroethane	212	**183**	**86**	66-122	
1634-04-4	Methyl tert-Butyl Ether	216	**176**	**81**	55-128	
108-05-4	Vinyl Acetate	1,040	**1030**	**99**	66-140	
78-93-3	2-Butanone (MEK)	220	**220**	**100**	62-127	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P160411-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
156-59-2	cis-1,2-Dichloroethene	218	**202**	**93**	65-125	
141-78-6	Ethyl Acetate	428	**439**	**103**	64-132	
110-54-3	n-Hexane	212	**188**	**89**	58-126	
67-66-3	Chloroform	224	**186**	**83**	68-117	
109-99-9	Tetrahydrofuran (THF)	220	**190**	**86**	64-123	
107-06-2	1,2-Dichloroethane	214	**175**	**82**	63-124	
71-55-6	1,1,1-Trichloroethane	210	**167**	**80**	68-120	
71-43-2	Benzene	226	**185**	**82**	61-110	
56-23-5	Carbon Tetrachloride	230	**176**	**77**	65-137	
110-82-7	Cyclohexane	424	**372**	**88**	68-122	
78-87-5	1,2-Dichloropropane	216	**196**	**91**	67-122	
75-27-4	Bromodichloromethane	218	**187**	**86**	71-124	
79-01-6	Trichloroethene	216	**170**	**79**	71-121	
123-91-1	1,4-Dioxane	210	**209**	**100**	67-122	
80-62-6	Methyl Methacrylate	422	**425**	**101**	76-130	
142-82-5	n-Heptane	216	**194**	**90**	67-125	
10061-01-5	cis-1,3-Dichloropropene	208	**194**	**93**	73-131	
108-10-1	4-Methyl-2-pentanone	220	**228**	**104**	66-132	
10061-02-6	trans-1,3-Dichloropropene	210	**202**	**96**	76-135	
79-00-5	1,1,2-Trichloroethane	216	**191**	**88**	73-121	
108-88-3	Toluene	218	**179**	**82**	67-117	
591-78-6	2-Hexanone	220	**216**	**98**	59-128	
124-48-1	Dibromochloromethane	220	**193**	**88**	73-132	
106-93-4	1,2-Dibromoethane	218	**198**	**91**	73-128	
123-86-4	n-Butyl Acetate	226	**231**	**102**	61-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P160411-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/16
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
111-65-9	n-Octane	210	**188**	**90**	67-124	
127-18-4	Tetrachloroethene	202	**175**	**87**	65-126	
108-90-7	Chlorobenzene	220	**183**	**83**	68-120	
100-41-4	Ethylbenzene	218	**185**	**85**	69-123	
179601-23-1	m,p-Xylenes	428	**369**	**86**	67-125	
75-25-2	Bromoform	228	**193**	**85**	68-153	
100-42-5	Styrene	222	**198**	**89**	68-132	
95-47-6	o-Xylene	210	**180**	**86**	67-124	
111-84-2	n-Nonane	204	**189**	**93**	60-130	
79-34-5	1,1,2,2-Tetrachloroethane	210	**193**	**92**	72-128	
98-82-8	Cumene	208	**175**	**84**	67-124	
80-56-8	alpha-Pinene	212	**186**	**88**	67-129	
103-65-1	n-Propylbenzene	204	**178**	**87**	67-125	
622-96-8	4-Ethyltoluene	214	**192**	**90**	66-128	
108-67-8	1,3,5-Trimethylbenzene	214	**179**	**84**	65-125	
95-63-6	1,2,4-Trimethylbenzene	218	**187**	**86**	62-134	
100-44-7	Benzyl Chloride	220	**190**	**86**	74-145	
541-73-1	1,3-Dichlorobenzene	228	**192**	**84**	63-133	
106-46-7	1,4-Dichlorobenzene	208	**182**	**88**	62-129	
95-50-1	1,2-Dichlorobenzene	220	**185**	**84**	62-134	
5989-27-5	d-Limonene	210	**198**	**94**	66-137	
96-12-8	1,2-Dibromo-3-chloropropane	218	**176**	**81**	71-147	
120-82-1	1,2,4-Trichlorobenzene	230	**173**	**75**	60-145	
91-20-3	Naphthalene	218	**158**	**72**	56-158	
87-68-3	Hexachlorobutadiene	230	**174**	**76**	56-139	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875
ALS Sample ID: P1601875-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00211

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Propene	3.52	2.05	3.71	2.16	3.615	**5**	25	
Dichlorodifluoromethane (CFC 12)	1.85	0.375	1.91	0.387	1.88	**3**	25	
Chloromethane	0.616	0.298	0.547	0.265	0.5815	**12**	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	176	93.2	179	95.0	177.5	**2**	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	1.88	0.820	1.91	0.834	1.895	**2**	25	**J**
Acetone	27.2	11.4	27.5	11.6	27.35	**1**	25	
Trichlorofluoromethane	0.983	0.175	0.986	0.175	0.9845	**0.3**	25	
2-Propanol (Isopropyl Alcohol)	5.15	2.10	5.07	2.06	5.11	**2**	25	**J**
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	9.41	2.71	9.54	2.75	9.475	**1**	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.450	0.0588	0.452	0.0591	0.451	**0.4**	25	
Carbon Disulfide	0.659	0.212	0.674	0.217	0.6665	**2**	25	**J**
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	2.76	0.938	2.74	0.929	2.75	**0.7**	25	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00211

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result **µg/m³**	Duplicate Sample Result **ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	7.50	2.08	7.79	2.16	7.645	**4**	25	
n-Hexane	0.556	0.158	0.567	0.161	0.5615	**2**	25	**J**
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	0.762	0.188	0.762	0.188	0.762	**0**	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.614	0.192	0.632	0.198	0.623	**3**	25	
Carbon Tetrachloride	0.370	0.0588	0.370	0.0588	0.37	**0**	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	0.405	0.0990	0.408	0.100	0.4065	**0.7**	25	**J**
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	0.683	0.167	0.661	0.161	0.672	**3**	25	**J**
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	2.54	0.676	2.60	0.689	2.57	**2**	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	1.18	0.249	1.17	0.247	1.175	**0.9**	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601875

ALS Sample ID: P1601875-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Evelyn Alvarez
Sample Type: Canister
Test Notes:
Container ID: CC00211

Date Collected: 4/6/16
Date Received: 4/8/16
Date Analyzed: 4/11/16
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.38 Final Pressure (psig): 3.92

Canister Dilution Factor: 2.24

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.242	0.0357	0.255	0.0377	0.2485	**5**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	0.385	0.0887	0.388	0.0893	0.3865	**0.8**	25	**J**
m,p-Xylenes	0.983	0.226	0.999	0.230	0.991	**2**	25	**J**
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	0.388	0.0893	0.396	0.0913	0.392	**2**	25	**J**
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	0.739	0.133	0.777	0.140	0.758	**5**	25	**J**
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	0.430	0.0875	0.432	0.0880	0.431	**0.5**	25	**J**
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	2.21	0.397	2.31	0.415	2.26	**4**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Air Samples – Semi-Volatile Organic Compounds (SVOCs)

Leighton

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4/6/2016

Meredith Church

Leighton Consulting, Inc.

17781 Cowan

Irvine CA 92614

Project Name:

Project #: 603287048

Workorder #: 1603589

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 3/31/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1603589

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	03/31/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/05/2016		

FRACTION #	NAME	TEST
01A(cancelled)	113-ST	Modified TO-13A
02A	120-ST	Modified TO-13A
03A	110-ST	Modified TO-13A
04A	121-ST	Modified TO-13A
05A	39-ST	Modified TO-13A
06A	39-STD	Modified TO-13A
07A	90-ST	Modified TO-13A
08A	35-ST	Modified TO-13A
09A	94-ST	Modified TO-13A
10A	54-ST	Modified TO-13A
11A	86-ST	Modified TO-13A
12A	22-ST	Modified TO-13A
13A	22-ST-FB	Modified TO-13A
14A	30-ST	Modified TO-13A
15A(cancelled)	30-ST-D	Modified TO-13A
16A	65-ST	Modified TO-13A
17A	65-ST-EXT	Modified TO-13A
18A	82-ST	Modified TO-13A
19A	76-ST	Modified TO-13A
20A	Lab Blank	Modified TO-13A
21A	CCV	Modified TO-13A
21B	CCV	Modified TO-13A
22A	LCS	Modified TO-13A

Continued on next page

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WORK ORDER #: 1603589

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	03/31/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/05/2016		

FRACTION #	NAME	TEST
22AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/06/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1603589

Nineteen PUF/XAD Cartridge-Low Volume samples were received on March 31, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

The date of sample collection noted on the Chain of Custody for samples 01A-04A appeared to be inaccurate by a factor of one year.

Samples 113-ST and 30-ST-D were cancelled per client's request.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/23/16 and 3/24/16.

Sampling volumes were supplied by the client. A sample volume of 7241 L was used to report sample 22-ST-FB and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not been flagged.

Dilution was performed on sample 110-ST due to the presence of high level target species.

Due to broken glassware, a portion of sample 90-ST was lost during the extraction process, and thus, recovery of all surrogates are below specified control limits. The results for sample 90-ST are biased low and data is reported as qualified.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	10	1.5
1,4-Dichlorobenzene	1.0	0.15	0.62 J	0.095 J
Naphthalene	1.0	0.15	0.45 J	0.069 J
Diethylphthalate	5.0	0.76	0.80 J	0.12 J
di-n-Butylphthalate	5.0	0.76	1.3 J	0.20 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	30 NJ
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	72%	46 NJ
Undecane, 4,6-dimethyl-	17312-82-2	78%	20 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	62%	35 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	43 NJ
Tridecane, 3-methyl-	6418-41-3	64%	23 NJ
Decane, 3-methyl-	13151-34-3	64%	55 NJ
Octane, 2,4,6-trimethyl-	62016-37-9	64%	36 NJ
Sulfurous acid, hexyl tridecyl ester	1000309-13-5	50%	23 NJ

[redacted]

Lab ID#: 1603589-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	2.2	0.34	340	52

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Nonanal	124-19-6	91%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	100 NJ
Decanal	112-31-2	90%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	17 NJ
9,12-Tetradecadien-1-ol, acetate, (Z,E)-	31654-77-0	38%	10 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	9.6 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Triacetin	102-76-1	90%	9.4 NJ

[redacted]

Lab ID#: 1603589-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.34 J	0.051 J
di-n-Butylphthalate	5.0	0.74	0.70	0.10

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	7.7 NJ
Tetrachloroethylene	127-18-4	99%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	32 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	90%	5.3 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	90%	6.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	6.5 NJ
Nonanal	124-19-6	91%	8.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	7.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	13 NJ
Tetradecane	629-59-4	98%	7.5 NJ

[redacted]

Lab ID#: 1603589-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	10	1.5
1,4-Dichlorobenzene	1.0	0.15	14	2.0
Naphthalene	1.0	0.15	0.42 J	0.062 J
Diethylphthalate	5.0	0.74	8.1	1.2
di-n-Butylphthalate	5.0	0.74	0.90 J	0.13 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-05A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	26 NJ
Ethanol, 2-butoxy-	111-76-2	78%	27 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	69 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	56 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	53%	18 NJ
Tridecane	629-50-5	94%	19 NJ
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	98%	18 NJ
Hexadecane	544-76-3	97%	14 NJ
Isopropyl Myristate	110-27-0	91%	22 NJ

[redacted]

Lab ID#: 1603589-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	11	1.6
1,4-Dichlorobenzene	1.0	0.14	15	2.2
Naphthalene	1.0	0.14	0.51 J	0.073 J
Diethylphthalate	5.0	0.72	8.9	1.3
di-n-Butylphthalate	5.0	0.72	1.3 J	0.18 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
Ethanol, 2-butoxy-	111-76-2	68%	30 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	80 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	36 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	64 NJ
Tridecane	629-50-5	96%	23 NJ
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	98%	19 NJ
Hexadecane	544-76-3	95%	19 NJ
Heptadecane	629-78-7	97%	19 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-06A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Isopropyl Myristate	110-27-0	91%	23 NJ

[redacted]

Lab ID#: 1603589-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	3.7 NJ
Nonanal	124-19-6	86%	4.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	10 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	8.2 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	72%	1.8 NJ

[redacted]

Lab ID#: 1603589-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	3.1 J	0.46 J
Naphthalene	1.0	0.15	0.63 J	0.093 J
Dimethylphthalate	5.0	0.74	2.9 J	0.43 J
Diethylphthalate	5.0	0.74	1.7 J	0.25 J
di-n-Butylphthalate	5.0	0.74	2.0 J	0.30 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	36 NJ
Ethanol, 2-butoxy-	111-76-2	52%	11 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	9.9 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	31 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-08A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Eucalyptol	470-82-6	86%	32 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	150 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	16 NJ
Isopropyl Myristate	110-27-0	90%	16 NJ

[redacted]

Lab ID#: 1603589-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	4.6 J	0.68 J
Naphthalene	1.0	0.15	0.94 J	0.14 J
2-Methylnaphthalene	1.0	0.15	0.55 J	0.083 J
Diethylphthalate	5.0	0.75	0.87 J	0.13 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Oxirane, [(1-methylethoxy)methyl]-	4016-14-2	56%	67 NJ
Benzene, 1,3-dimethyl-	108-38-3	97%	20 NJ
Cyclohexanone	108-94-1	93%	27 NJ
Octane, 2,5,6-trimethyl-	62016-14-2	64%	29 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	200 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	78%	20 NJ
Nonanal	124-19-6	78%	22 NJ
3-Hydroxy-3-methyl-2-butanone	115-22-0	53%	53 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	50%	19 NJ
Propanoic acid, 2-methyl-, 1-(1,1-dimeth	74381-40-1	72%	72 NJ

[redacted]

Lab ID#: 1603589-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.9 J	0.57 J
Naphthalene	1.0	0.15	0.21 J	0.031 J
Diethylphthalate	5.0	0.73	0.89 J	0.13 J
di-n-Butylphthalate	5.0	0.73	0.77 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	25 NJ
Ethanol, 2-butoxy-	111-76-2	91%	5.9 NJ
Nonanal	124-19-6	78%	5.7 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	7.5 NJ
Dodecane	112-40-3	95%	5.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	12 NJ
Tridecane	629-50-5	97%	4.0 NJ

[redacted]

Lab ID#: 1603589-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.29 J	0.043 J

[redacted]

Lab ID#: 1603589-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	2.9 J	0.42 J
1,4-Dichlorobenzene	1.0	0.15	9.6	1.4
Naphthalene	1.0	0.15	1.9	0.28
Diethylphthalate	5.0	0.74	1.1 J	0.16 J
di-n-Butylphthalate	5.0	0.74	1.6 J	0.23 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-12A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	28 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	90%	17 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	95%	17 NJ
Nonanal	124-19-6	90%	16 NJ
Methyl salicylate	119-36-8	97%	29 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	15 NJ
Tridecane	629-50-5	52%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	14 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	85 NJ

[redacted]

Lab ID#: 1603589-13A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	6.2 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	12 NJ

[redacted]

Lab ID#: 1603589-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	2.8 J	0.41 J
1,4-Dichlorobenzene	1.0	0.14	1.2	0.17
Naphthalene	1.0	0.14	0.32 J	0.047 J
Diethylphthalate	5.0	0.72	1.4 J	0.20 J
di-n-Butylphthalate	5.0	0.72	1.2 J	0.17 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-14A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	32 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	21 NJ
Benzyl Alcohol	100-51-6	94%	16 NJ
Nonanal	124-19-6	91%	16 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
1-Propanol, 2,2'-oxybis-	108-61-2	72%	13 NJ
2,2,4-Trimethyl-1,3-pentanediol diisobut	6846-50-0	59%	56 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	74 NJ
Isopropyl Myristate	110-27-0	87%	13 NJ

[redacted]

Lab ID#: 1603589-16A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.29 J	0.042 J
Diethylphthalate	5.0	0.74	1.1 J	0.16 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	32 NJ
Benzaldehyde	100-52-7	94%	9.2 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	87%	8.1 NJ
Decane	124-18-5	97%	15 NJ
Undecane	1120-21-4	94%	8.8 NJ
Nonanal	124-19-6	90%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	93%	810 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	9.4 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-17A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	16 NJ

[redacted]

Lab ID#: 1603589-18A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	38%	32 NJ
1,3-Butanediol	107-88-0	78%	8.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	4.4 NJ
Nonanal	124-19-6	91%	9.1 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	14 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ

[redacted]

Lab ID#: 1603589-19A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	9.0	1.3
1,4-Dichlorobenzene	1.0	0.15	5.5	0.81
Naphthalene	1.0	0.15	0.38 J	0.056 J
Diethylphthalate	5.0	0.73	0.76 J	0.11 J
di-n-Butylphthalate	5.0	0.73	1.1 J	0.16 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	29 NJ
Ethanol, 2-butoxy-	111-76-2	83%	11 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1603589-19A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	64%	7.1 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	28 NJ
Nonanal	124-19-6	86%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	43 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	91%	7.2 NJ
Ethanol, 2-phenoxy-	122-99-6	96%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	16 NJ

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[redacted]

Lab ID#: 1603589-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040209**	**Date of Collection: 3/29/16 9:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 05:16 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	10	1.5
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.62 J	0.095 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.45 J	0.069 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	0.80 J	0.12 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040209**	**Date of Collection:**	**3/29/16 9:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 05:16 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	1.3 J	0.20 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	30 NJ
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	72%	46 NJ
Undecane, 4,6-dimethyl-	17312-82-2	78%	20 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	62%	35 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	43 NJ
Tridecane, 3-methyl-	6418-41-3	64%	23 NJ
Decane, 3-methyl-	13151-34-3	64%	55 NJ
Octane, 2,4,6-trimethyl-	62016-37-9	64%	36 NJ
Sulfurous acid, hexyl tridecyl ester	1000309-13-5	50%	23 NJ

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Lab ID#: 1603589-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040209**	**Date of Collection: 3/29/16 9:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 05:16 PM**
		Date of Extraction: 3/31/16

Air Sample Volume(L): 6600

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	80	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1603589-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040425**	**Date of Collection: 3/29/16 9:53:00 AM**	
Dil. Factor:	**2.22**	**Date of Analysis: 4/5/16 03:46 AM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	11	1.7	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	2.2	0.34	Not Detected	Not Detected
2-Chlorophenol	11	1.7	Not Detected	Not Detected
1,3-Dichlorobenzene	2.2	0.34	Not Detected	Not Detected
1,4-Dichlorobenzene	2.2	0.34	340	52
1,2-Dichlorobenzene	2.2	0.34	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	11	1.7	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	2.2	0.34	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	2.2	0.34	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	11	1.7	Not Detected	Not Detected
Hexachloroethane	2.2	0.34	Not Detected	Not Detected
Nitrobenzene	2.2	0.34	Not Detected	Not Detected
Isophorone	2.2	0.34	Not Detected	Not Detected
2-Nitrophenol	11	1.7	Not Detected	Not Detected
2,4-Dimethylphenol	11	1.7	Not Detected	Not Detected
Benzoic Acid	67	10	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	2.2	0.34	Not Detected	Not Detected
2,4-Dichlorophenol	11	1.7	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.2	0.34	Not Detected	Not Detected
Naphthalene	2.2	0.34	Not Detected	Not Detected
4-Chloroaniline	22	3.4	Not Detected	Not Detected
Hexachlorobutadiene	2.2	0.34	Not Detected	Not Detected
4-Chloro-3-methylphenol	11	1.7	Not Detected	Not Detected
2-Methylnaphthalene	2.2	0.34	Not Detected	Not Detected
Hexachlorocyclopentadiene	44	6.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	11	1.7	Not Detected	Not Detected
2,4,5-Trichlorophenol	22	3.4	Not Detected	Not Detected
2-Chloronaphthalene	2.2	0.34	Not Detected	Not Detected
2-Nitroaniline	22	3.4	Not Detected	Not Detected
Dimethylphthalate	11	1.7	Not Detected	Not Detected
Acenaphthylene	2.2	0.34	Not Detected	Not Detected
2,6-Dinitrotoluene	11	1.7	Not Detected	Not Detected
3-Nitroaniline	22	3.4	Not Detected	Not Detected
Acenaphthene	2.2	0.34	Not Detected	Not Detected
2,4-Dinitrophenol	89	14	Not Detected	Not Detected
4-Nitrophenol	89	14	Not Detected	Not Detected
2,4-Dinitrotoluene	11	1.7	Not Detected	Not Detected
Dibenzofuran	2.2	0.34	Not Detected	Not Detected
Diethylphthalate	11	1.7	Not Detected	Not Detected
Fluorene	2.2	0.34	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	2.2	0.34	Not Detected	Not Detected

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Lab ID#: 1603589-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040425**	**Date of Collection: 3/29/16 9:53:00 AM**	
Dil. Factor:	**2.22**	**Date of Analysis: 4/5/16 03:46 AM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	22	3.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	22	3.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	22	3.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	2.2	0.34	Not Detected	Not Detected
Hexachlorobenzene	2.2	0.34	Not Detected	Not Detected
Pentachlorophenol	180	27	Not Detected	Not Detected
Phenanthrene	2.2	0.34	Not Detected	Not Detected
Anthracene	2.2	0.34	Not Detected	Not Detected
di-n-Butylphthalate	11	1.7	Not Detected	Not Detected
Fluoranthene	2.2	0.34	Not Detected	Not Detected
Pyrene	2.2	0.34	Not Detected	Not Detected
Butylbenzylphthalate	11	1.7	Not Detected	Not Detected
3,3'-Dichlorobenzidine	44	6.8	Not Detected	Not Detected
Chrysene	2.2	0.34	Not Detected	Not Detected
Benzo(a)anthracene	2.2	0.34	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	11	1.7	Not Detected	Not Detected
Di-n-Octylphthalate	11	1.7	Not Detected	Not Detected
Benzo(b)fluoranthene	2.2	0.34	Not Detected	Not Detected
Benzo(k)fluoranthene	2.2	0.34	Not Detected	Not Detected
Benzo(a)pyrene	2.2	0.34	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	2.2	0.34	Not Detected	Not Detected
Dibenz(a,h)anthracene	2.2	0.34	Not Detected	Not Detected
Benzo(g,h,i)perylene	2.2	0.34	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Nonanal	124-19-6	91%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	100 NJ
Decanal	112-31-2	90%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	17 NJ
9,12-Tetradecadien-1-ol, acetate, (Z,E)-	31654-77-0	38%	10 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	9.6 NJ
Triacetin	102-76-1	90%	9.4 NJ

Air Sample Volume(L): 6520

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits

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Lab ID#: 1603589-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040425**	**Date of Collection: 3/29/16 9:53:00 AM**
Dil. Factor:	**2.22**	**Date of Analysis: 4/5/16 03:46 AM**
		Date of Extraction: 3/31/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	88	35-114
2,4,6-Tribromophenol	60	10-123
Fluorene-d10	85	60-120
Pyrene-d10	101	60-120
Benzo(a)pyrene-d12	71	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1603589-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040211**	**Date of Collection:**	**3/29/16 11:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 06:15 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.34 J	0.051 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040211**	**Date of Collection:**	**3/29/16 11:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 06:15 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.70	0.10
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	7.7 NJ
Tetrachloroethylene	127-18-4	99%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	32 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	90%	5.3 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	90%	6.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	6.5 NJ
Nonanal	124-19-6	91%	8.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	7.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	13 NJ
Tetradecane	629-59-4	98%	7.5 NJ

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Lab ID#: 1603589-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040211**	**Date of Collection: 3/29/16 11:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 06:15 PM**
		Date of Extraction: 3/31/16

Air Sample Volume(L): 6740

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	73	21-110
Phenol-d5	85	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	78	60-120
Pyrene-d10	97	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1603589-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040212**	**Date of Collection: 3/29/16 3:25:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 06:44 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	10	1.5
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	14	2.0
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.42 J	0.062 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	8.1	1.2
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040212**	**Date of Collection:**	**3/29/16 3:25:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 06:44 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.90 J	0.13 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	26 NJ
Ethanol, 2-butoxy-	111-76-2	78%	27 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	69 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	56 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	53%	18 NJ
Tridecane	629-50-5	94%	19 NJ
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	98%	18 NJ
Hexadecane	544-76-3	97%	14 NJ
Isopropyl Myristate	110-27-0	91%	22 NJ

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Lab ID#: 1603589-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040212**	**Date of Collection: 3/29/16 3:25:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 06:44 PM**
		Date of Extraction: 3/31/16

Air Sample Volume(L): 6720

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	77	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1603589-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040213**	**Date of Collection:**	**3/29/16 3:24:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 07:14 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	11	1.6
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	15	2.2
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.51 J	0.073 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	8.9	1.3
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1603589-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040213**	**Date of Collection:**	**3/29/16 3:24:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 07:14 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.3 J	0.18 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
Ethanol, 2-butoxy-	111-76-2	68%	30 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	80 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	36 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	64 NJ
Tridecane	629-50-5	96%	23 NJ
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	98%	19 NJ
Hexadecane	544-76-3	95%	19 NJ
Heptadecane	629-78-7	97%	19 NJ
Isopropyl Myristate	110-27-0	91%	23 NJ

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Lab ID#: 1603589-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040213**	**Date of Collection: 3/29/16 3:24:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 07:14 PM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6970

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	80	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	102	50-150

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Lab ID#: 1603589-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040214**	**Date of Collection: 3/29/16 3:54:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 07:44 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040214**	**Date of Collection:**	**3/29/16 3:54:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 07:44 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	3.7 NJ
Nonanal	124-19-6	86%	4.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	10 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	8.2 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	72%	1.8 NJ

Air Sample Volume(L): 6700

NJ =The identification is based on presumptive evidence; estimated value.
Q = Exceeds Quality Control limits.
Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1603589-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040214**	**Date of Collection: 3/29/16 3:54:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 07:44 PM**
		Date of Extraction: 3/31/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	16 Q	21-110
Phenol-d5	19 Q	10-110
Nitrobenzene-d5	19 Q	35-114
2,4,6-Tribromophenol	13 Q	10-123
Fluorene-d10	19 Q	60-120
Pyrene-d10	23 Q	60-120
Benzo(a)pyrene-d12	17 Q	50-150
Fluoranthene-d10	23 Q	50-150

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Lab ID#: 1603589-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040215**	**Date of Collection: 3/29/16 4:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 08:13 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	3.1 J	0.46 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.63 J	0.093 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	2.9 J	0.43 J
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.7 J	0.25 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040215**	**Date of Collection: 3/29/16 4:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 08:13 PM**
		Date of Extraction: 3/31/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	2.0 J	0.30 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	36 NJ
Ethanol, 2-butoxy-	111-76-2	52%	11 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	9.9 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	31 NJ
Eucalyptol	470-82-6	86%	32 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	150 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	16 NJ
Isopropyl Myristate	110-27-0	90%	16 NJ

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Lab ID#: 1603589-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040215**	**Date of Collection: 3/29/16 4:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 08:13 PM**
		Date of Extraction: 3/31/16

Air Sample Volume(L): 6750

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	83	10-123
Fluorene-d10	78	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	89	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1603589-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040216**	**Date of Collection:**	**3/29/16 5:11:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 08:43 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	4.6 J	0.68 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.94 J	0.14 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.55 J	0.083 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	0.87 J	0.13 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040216**	**Date of Collection: 3/29/16 5:11:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 08:43 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Oxirane, [(1-methylethoxy)methyl]-	4016-14-2	56%	67 NJ
Benzene, 1,3-dimethyl-	108-38-3	97%	20 NJ
Cyclohexanone	108-94-1	93%	27 NJ
Octane, 2,5,6-trimethyl-	62016-14-2	64%	29 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	200 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	78%	20 NJ
Nonanal	124-19-6	78%	22 NJ
3-Hydroxy-3-methyl-2-butanone	115-22-0	53%	53 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	50%	19 NJ
Propanoic acid, 2-methyl-, 1-(1,1-dimeth	74381-40-1	72%	72 NJ

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Lab ID#: 1603589-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040216**	**Date of Collection: 3/29/16 5:11:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 08:43 PM**
		Date of Extraction: 3/31/16

Air Sample Volume(L): 6680

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	75	10-123
Fluorene-d10	79	60-120
Pyrene-d10	94	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1603589-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040217**	**Date of Collection:**	**3/29/16 8:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 09:12 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.9 J	0.57 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.21 J	0.031 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	0.89 J	0.13 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040217**	**Date of Collection: 3/29/16 8:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 09:12 PM**
		Date of Extraction: 3/31/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	0.77 J	0.11 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	25 NJ
Ethanol, 2-butoxy-	111-76-2	91%	5.9 NJ
Nonanal	124-19-6	78%	5.7 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	7.5 NJ
Dodecane	112-40-3	95%	5.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	12 NJ
Tridecane	629-50-5	97%	4.0 NJ

Air Sample Volume(L): 6840
NJ =The identification is based on presumptive evidence; estimated value.
Container Type: PUF/XAD Cartridge-Low Volume

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[redacted]

Lab ID#: 1603589-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040217**	**Date of Collection: 3/29/16 8:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 09:12 PM**
		Date of Extraction: 3/31/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	43	21-110
Phenol-d5	62	10-110
Nitrobenzene-d5	60	35-114
2,4,6-Tribromophenol	67	10-123
Fluorene-d10	68	60-120
Pyrene-d10	85	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1603589-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040218**	**Date of Collection: 3/29/16 9:37:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 09:42 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.29 J	0.043 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040218**	**Date of Collection: 3/29/16 9:37:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 09:42 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ug
None Identified			

Air Sample Volume(L): 6750
Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	78	60-120
Pyrene-d10	93	60-120

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Lab ID#: 1603589-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040218**	**Date of Collection: 3/29/16 9:37:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 09:42 PM**
		Date of Extraction: 3/31/16

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1603589-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040219**	**Date of Collection: 3/29/16 10:17:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 10:12 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	2.9 J	0.42 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	9.6	1.4
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.9	0.28
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.1 J	0.16 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040219**	**Date of Collection:**	**3/29/16 10:17:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 10:12 PM**
		Date of Extraction:	**3/31/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.6 J	0.23 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	28 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	90%	17 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	95%	17 NJ
Nonanal	124-19-6	90%	16 NJ
Methyl salicylate	119-36-8	97%	29 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	15 NJ
Tridecane	629-50-5	52%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	14 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	85 NJ

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Lab ID#: 1603589-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040219**	**Date of Collection: 3/29/16 10:17:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 10:12 PM**
		Date of Extraction: 3/31/16

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	73	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	89	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	78	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1603589-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040207**	**Date of Collection: 3/29/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 04:17 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.69	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.69	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.69	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.69	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.69	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.69	Not Detected	Not Detected
Benzoic Acid	30	4.1	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.69	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.69	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.69	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.69	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.69	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.5	Not Detected	Not Detected
4-Nitrophenol	40	5.5	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.69	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.69	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1603589-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040207**	**Date of Collection: 3/29/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 04:17 PM**	
		Date of Extraction: 3/31/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.69	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.69	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.69	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.69	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	6.2 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	12 NJ

Air Sample Volume(L): 7240

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	51	21-110
Phenol-d5	68	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	61	10-123

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Lab ID#: 1603589-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040207**	**Date of Collection:**	**3/29/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 04:17 PM**
		Date of Extraction:	**3/31/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	74	60-120
Pyrene-d10	85	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	94	50-150

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Lab ID#: 1603589-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040220**	**Date of Collection: 3/29/16 12:43:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 10:41 PM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	2.8 J	0.41 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	1.2	0.17
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.32 J	0.047 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	1.4 J	0.20 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1603589-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040220**	**Date of Collection:**	**3/29/16 12:43:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 10:41 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.2 J	0.17 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	32 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	21 NJ
Benzyl Alcohol	100-51-6	94%	16 NJ
Nonanal	124-19-6	91%	16 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
1-Propanol, 2,2'-oxybis-	108-61-2	72%	13 NJ
2,2,4-Trimethyl-1,3-pentanediol diisobut	6846-50-0	59%	56 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	74 NJ
Isopropyl Myristate	110-27-0	87%	13 NJ

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Lab ID#: 1603589-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040220**	**Date of Collection: 3/29/16 12:43:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 10:41 PM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6940

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	76	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1603589-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040222**	**Date of Collection:**	**3/29/16 2:53:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 11:40 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.29 J	0.042 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.1 J	0.16 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040222**	**Date of Collection:**	**3/29/16 2:53:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/2/16 11:40 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	32 NJ
Benzaldehyde	100-52-7	94%	9.2 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	87%	8.1 NJ
Decane	124-18-5	97%	15 NJ
Undecane	1120-21-4	94%	8.8 NJ
Nonanal	124-19-6	90%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	93%	810 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	9.4 NJ

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Lab ID#: 1603589-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040222**	**Date of Collection: 3/29/16 2:53:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 11:40 PM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6770

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	74	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	75	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1603589-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040223**	**Date of Collection: 3/29/16 3:05:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:10 AM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040223**	**Date of Collection:**	**3/29/16 3:05:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 12:10 AM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	16 NJ

Air Sample Volume(L): 6800

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	76	10-123

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Lab ID#: 1603589-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040223**	**Date of Collection: 3/29/16 3:05:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:10 AM**
		Date of Extraction: 12/17/15

Surrogates	%Recovery	Method Limits
Fluorene-d10	78	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	78	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1603589-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040224**	**Date of Collection: 3/29/16 3:30:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:40 AM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.69	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.69	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.69	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.69	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.69	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.69	Not Detected	Not Detected
Benzoic Acid	30	4.1	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.69	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.69	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.69	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.69	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.69	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.5	Not Detected	Not Detected
4-Nitrophenol	40	5.5	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.69	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.69	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1603589-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040224**	**Date of Collection: 3/29/16 3:30:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:40 AM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.69	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.69	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.69	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.69	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	38%	32 NJ
1,3-Butanediol	107-88-0	78%	8.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	4.4 NJ
Nonanal	124-19-6	91%	9.1 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	14 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ

Air Sample Volume(L): 7240

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1603589-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040224**	**Date of Collection: 3/29/16 3:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:40 AM**
		Date of Extraction: 12/17/15

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	79	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	104	50-150

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Lab ID#: 1603589-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040225**	**Date of Collection: 3/29/16 4:59:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 01:09 AM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	9.0	1.3
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	5.5	0.81
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.38 J	0.056 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	0.76 J	0.11 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1603589-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040225**	**Date of Collection: 3/29/16 4:59:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 01:09 AM**
		Date of Extraction: 12/17/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.1 J	0.16 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	29 NJ
Ethanol, 2-butoxy-	111-76-2	83%	11 NJ
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	64%	7.1 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	28 NJ
Nonanal	124-19-6	86%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	43 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	91%	7.2 NJ
Ethanol, 2-phenoxy-	122-99-6	96%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	16 NJ

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Lab ID#: 1603589-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040225**	**Date of Collection: 3/29/16 4:59:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 01:09 AM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6810

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	77	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1603589-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 03:47 PM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.69	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.69	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.69	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.69	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.69	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.69	Not Detected	Not Detected
Benzoic Acid	30	4.1	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.69	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.69	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.69	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.69	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.69	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.5	Not Detected	Not Detected
4-Nitrophenol	40	5.5	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.69	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.69	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1603589-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 03:47 PM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected UJ	Not Detected UJ
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.69	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.69	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.69	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.69	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	18 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	11 NJ

Air Sample Volume(L): 7240

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	28	21-110
Phenol-d5	63	10-110
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	77	10-123

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Lab ID#: 1603589-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 03:47 PM**	
		Date of Extraction: 12/17/15	

Surrogates	%Recovery	Method Limits
Fluorene-d10	78	60-120
Pyrene-d10	96	60-120
Benzo(a)pyrene-d12	92	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1603589-21A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 02:18 PM**
		Date of Extraction: 12/17/15

Compound	%Recovery
Phenol	105
bis(2-Chloroethyl) Ether	104
2-Chlorophenol	108
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
1,2-Dichlorobenzene	104
2-Methylphenol (o-Cresol)	108
bis(2-Chloroisopropyl) Ether	106
N-Nitroso-di-n-propylamine	114
4-Methylphenol/3-Methylphenol	112
Hexachloroethane	104
Nitrobenzene	107
Isophorone	111
2-Nitrophenol	107
2,4-Dimethylphenol	108
Benzoic Acid	102
bis(2-Chloroethoxy) Methane	107
2,4-Dichlorophenol	110
1,2,4-Trichlorobenzene	104
Naphthalene	107
4-Chloroaniline	107
Hexachlorobutadiene	100
4-Chloro-3-methylphenol	121
2-Methylnaphthalene	108
Hexachlorocyclopentadiene	91
2,4,6-Trichlorophenol	109
2,4,5-Trichlorophenol	112
2-Chloronaphthalene	100
2-Nitroaniline	116
Dimethylphthalate	108
Acenaphthylene	107
2,6-Dinitrotoluene	110
3-Nitroaniline	115
Acenaphthene	106
2,4-Dinitrophenol	79
4-Nitrophenol	109
2,4-Dinitrotoluene	117
Dibenzofuran	107
Diethylphthalate	111
Fluorene	108
4-Chlorophenyl-phenyl Ether	108

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Lab ID#: 1603589-21A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/2/16 02:18 PM**
		Date of Extraction: 12/17/15

Compound	%Recovery
4-Nitroaniline	118
4,6-Dinitro-2-methylphenol	103
N-Nitrosodiphenylamine	97
4-Bromophenyl-phenyl Ether	105
Hexachlorobenzene	101
Pentachlorophenol	56 Q
Phenanthrene	104
Anthracene	108
di-n-Butylphthalate	113
Fluoranthene	112
Pyrene	112
Butylbenzylphthalate	119
3,3'-Dichlorobenzidine	96
Chrysene	105
Benzo(a)anthracene	109
bis(2-Ethylhexyl)phthalate	120
Di-n-Octylphthalate	132 Q
Benzo(b)fluoranthene	114
Benzo(k)fluoranthene	113
Benzo(a)pyrene	112
Indeno(1,2,3-c,d)pyrene	102
Dibenz(a,h)anthracene	103
Benzo(g,h,i)perylene	100

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	109	21-110
Phenol-d5	108	10-110
Nitrobenzene-d5	109	35-114
2,4,6-Tribromophenol	117	10-123
Fluorene-d10	108	60-120
Pyrene-d10	112	60-120
Benzo(a)pyrene-d12	113	50-150
Fluoranthene-d10	114	50-150

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Lab ID#: 1603589-21B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: 12/17/15

Compound	%Recovery
Phenol	101
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
1,2-Dichlorobenzene	100
2-Methylphenol (o-Cresol)	105
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	112
4-Methylphenol/3-Methylphenol	106
Hexachloroethane	102
Nitrobenzene	103
Isophorone	108
2-Nitrophenol	97
2,4-Dimethylphenol	101
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	102
2,4-Dichlorophenol	104
1,2,4-Trichlorobenzene	97
Naphthalene	98
4-Chloroaniline	101
Hexachlorobutadiene	96
4-Chloro-3-methylphenol	114
2-Methylnaphthalene	103
Hexachlorocyclopentadiene	98
2,4,6-Trichlorophenol	102
2,4,5-Trichlorophenol	108
2-Chloronaphthalene	101
2-Nitroaniline	109
Dimethylphthalate	105
Acenaphthylene	104
2,6-Dinitrotoluene	104
3-Nitroaniline	104
Acenaphthene	103
2,4-Dinitrophenol	75
4-Nitrophenol	108
2,4-Dinitrotoluene	116
Dibenzofuran	104
Diethylphthalate	106
Fluorene	106
4-Chlorophenyl-phenyl Ether	103

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Lab ID#: 1603589-21B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: 12/17/15

Compound	%Recovery
4-Nitroaniline	106
4,6-Dinitro-2-methylphenol	104
N-Nitrosodiphenylamine	100
4-Bromophenyl-phenyl Ether	101
Hexachlorobenzene	100
Pentachlorophenol	70
Phenanthrene	101
Anthracene	105
di-n-Butylphthalate	107
Fluoranthene	106
Pyrene	111
Butylbenzylphthalate	112
3,3'-Dichlorobenzidine	91
Chrysene	101
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	108
Di-n-Octylphthalate	112
Benzo(b)fluoranthene	105
Benzo(k)fluoranthene	109
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	100
Dibenz(a,h)anthracene	101
Benzo(g,h,i)perylene	101

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	106	21-110
Phenol-d5	102	10-110
Nitrobenzene-d5	104	35-114
2,4,6-Tribromophenol	111	10-123
Fluorene-d10	106	60-120
Pyrene-d10	110	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	106	50-150

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[redacted]

Lab ID#: 1603589-22A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:52 PM**	
		Date of Extraction: 12/17/15	

Compound	%Recovery	Method Limits
Phenol	65	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	49	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	24 Q	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	91	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	64	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	94	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	84	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	71	10-80
2,4-Dinitrotoluene	95	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1603589-22A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:52 PM**	
		Date of Extraction: 12/17/15	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	52	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	102	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	22	21-110
Phenol-d5	60	10-110
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	76	60-120
Pyrene-d10	93	60-120
Benzo(a)pyrene-d12	92	50-150
Fluoranthene-d10	106	50-150

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[redacted]

Lab ID#: 1603589-22AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 07:22 PM**	
		Date of Extraction: 12/17/15	

Compound	%Recovery	Method Limits
Phenol	53	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	40	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	19 Q	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	78	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	54	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	81	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	74	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	62	10-80
2,4-Dinitrotoluene	82	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1603589-22AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 07:22 PM**	
		Date of Extraction: 12/17/15	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	40	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	90	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	18 Q	21-110
Phenol-d5	51	10-110
Nitrobenzene-d5	57	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	69	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	74	50-150
Fluoranthene-d10	87	50-150

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3/29/17
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg/Hovanes Dekeyan	
	Rotameter: 001336 **Serial # :** 442371	**Expiration Date:** 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A	Avg:	aw 3/31/16		aw 3/30/16			
113-ST	↓	↓	4.8	~~4.8~~	0942	~~0929~~	VOID		Dining Rm table, ~3ft tall, N side of house. VOID
			Avg:			3/30/16			
120-ST			4.8	4.8	1020	~~0953~~	1376	6604.8	By Dining Rm table, 4ft tall, N. side of house
			Avg: 4.8			0924			
110-ST			4.8	4.8	1115	0953	1358	6518.4	Breakfast table in kitchen area ~3.5ft tall, NE side of house
			Avg: 4.8						
aw 3/29/16 ~~WTP~~-ST			4.8	4.8	1224	1148	1404	6739.2	Dining Rm table ~3.5ft tall N. side of house
			Avg: 4.8						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 4.4°
Fed Ex

Relinquished by: Camilla Westberg	**Date:** 3/30/16	**Time:** 1750	**Received by:** [signature]	**Date:** 3/30/16	**Time:** 1807
Relinquished by:	**Date:**	**Time:**	**Received by:** [signature] EATL	**Date:** 3/31/16	**Time:** 1035
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1003588

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg / Hovanes Dekeyan	
	Rotameter: 001336 **Serial # :** 442371	**Expiration Date:** 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
39-ST			4.8	4.6	1535	1525	1430	6721 ~~6864~~ W135 7-30-16	Next to kitchen table. ~4ft tall. S. side of kitchen/ house
			Avg: 4.7						
39-STD			4.8	5.1	1556	1524	1408	6969.6	Next to kitchen island. ~4ft tall. S. side of house
			Avg: 4.95						
90-ST			4.8	4.8	1638	1534	1396	6700.8	Dining table by kitchen. 4ft tall. N. side of house
			Avg: 4.8						
35-ST			4.8	4.8	1724	1650	1406	6748.8	Dining table in living rm. ~3.5ft tall. Center of house
			Avg: 4.8						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 4.4°C
Fed Ex

Relinquished by: Camilla Westberg	**Date:** 3/30/16	**Time:** 1750	**Received by:** JDR	**Date:** 3/30/16	**Time:** 1807
Relinquished by:	**Date:**	**Time:**	**Received by:** Andrea Magnotti EATL	**Date:** 3/31/16	**Time:** 1035
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

603589

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3/29/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Camilla Westberg/Hovanes Dekeyan

Rotameter: 001336 **Serial # :** 442371 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
94-ST	↓	↓	4.8	4.8	1759	1711	1392	6681.6	Dining table in living room. ~3.5ft tall. East side of house
			Avg: 4.8						
			Avg:						
			Avg:						
			Avg:						

94A

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 4.4°
Fed Ex

Relinquished by: Camilla Westberg	**Date:** 3/30/16	**Time:** 1750	**Received by:** [illegible]	**Date:** 3/30/16	**Time:** 1807
Relinquished by:	**Date:**	**Time:**	**Received by:** Andrea Augustin EATL	**Date:** 3/31/16	**Time:** 1035
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1603599

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez	
	Rotameter: 19458700 **Serial # :**	**Expiration Date:** 5/15/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
54-ST	Sorbent Tube	SVOCs TO-13A	4.8	4.8	0903	0848	1475	6840	dining room table
			Avg: 4.8						
~~43-ST~~ 86-ST	Sorbent tube	SVOCs TO-13A	4.8	4.8	1012	0937	1406	6749	dining room (no furniture)
			Avg: 4.8						
22-ST	Sorbent tube	SVOCs TO-13A	4.8	4.8	1043	1017	1414	6787	dining room table
			Avg: 4.8						
~~22-ST~~ DUP-FB	Sorbent tube	SVOCs TO-13A							blank
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 4.4°C
FedEx

Relinquished by:	**Date:** 3/30/16	**Time:** 1751	**Received by:**	**Date:** 3/30/16	**Time:** 1756
Relinquished by:	**Date:**	**Time:**	**Received by:** Andrea Angeletti EATL	**Date:** 3/31/16	**Time:** 1035
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

160359

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/29/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez
	Rotameter: 19458700 Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
30-ST	Sorbent Tube	TO-13A	4.8	5.0	1309	1243	1414	6938	2nd floor NW Bedroom
			Avg: 4.9						
~~30-ST-D~~	~~Sorbent~~ Tube	~~TO-13A~~ VOID	~~4.8~~		~~1309~~				~~2nd floor NW Bedroom~~
			Avg:			VOID	VOID	VOID	pump Feed shut-off
65-ST	11	11	4.8	4.8	1514	1453	1416	6767	dining room table
			Avg: 4.8						
65-ST-EXT	11	11	4.8	4.8	1528	1505	1417	6802	patio table
			Avg: 4.8						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 4.4c
Fed Ex

Relinquished by:	Date: 3/30/16	Time: 1751	Received by: CBL	Date: 3/30/16	Time: 1756
Relinquished by:	Date:	Time:	Received by: Andrea Degrati ecm	Date: 3/31/16	Time: 1035
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

16 03.559

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: 194587-0 Serial # :	Expiration Date: 5/15/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
82-ST	"	"	4.8	5.5	1604	1530	1406	7241	fireplace front
			Avg: 5.15						
76-ST	Sorbent Tube	TO-13A	4.8	4.8	1727	1659	1419	6811	Dining Room, middle of Room
			Avg: 4.8						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? Y N (None) Temp 4.4°C
Fed Ex

Relinquished by:	Date: 3/30/16	Time: 1751	Received by: Andrea Augustin	Date: 3/31/16	Time: 1035
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

1603589

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4/11/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604002

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/1/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604002

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/01/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/11/2016		

FRACTION #	NAME	TEST
01A	7-ST	Modified TO-13A
02A	36-ST	Modified TO-13A
03A	36-ST-FB	Modified TO-13A
04A	31-ST	Modified TO-13A
05A	34-ST	Modified TO-13A
06A	34-ST-D	Modified TO-13A
07A	47-ST	Modified TO-13A
08A	69-ST	Modified TO-13A
09A	93-ST	Modified TO-13A
10A	119-ST	Modified TO-13A
11A	45-ST	Modified TO-13A
12A	33-ST	Modified TO-13A
13A	33-ST-D	Modified TO-13A
14A	38-ST	Modified TO-13A
15A	37-ST	Modified TO-13A
16A	37-ST-EXT	Modified TO-13A
17A	91-ST	Modified TO-13A
18A	10-ST	Modified TO-13A
19A	48-ST-FB	Modified TO-13A
20A	48-ST	Modified TO-13A
21A	78-ST	Modified TO-13A
22A	57-ST	Modified TO-13A
23A	Lab Blank	Modified TO-13A

Continued on next page

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WORK ORDER #: 1604002

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/01/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/11/2016		

FRACTION #	NAME	TEST
23B	Lab Blank	Modified TO-13A
24A	CCV	Modified TO-13A
24B	CCV	Modified TO-13A
24C	CCV	Modified TO-13A
25A	LCS	Modified TO-13A
25AA	LCSD	Modified TO-13A
25B	LCS	Modified TO-13A
25BB	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/11/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604002

Twenty-two PUF/XAD Cartridge-Low Volume samples were received on April 01, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of iblue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/23/16, 3/24/16 and 3/25/16.

Sampling volumes were supplied by the client. A sample volume of 9880 L was used to report samples 36-ST-FB, 48-ST-FB and the Lab Blanks.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is

defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.28 J	0.041 J
Diethylphthalate	5.0	0.74	0.83 J	0.12 J
di-n-Butylphthalate	5.0	0.74	0.63 J	0.094 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	33 NJ
Octanal	124-13-0	91%	4.3 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	93%	7.0 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	72%	5.7 NJ
Decanal	112-31-2	91%	4.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Unknown	NA	NA	7.7 J

[redacted]

Lab ID#: 1604002-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	7.2	1.1
1,4-Dichlorobenzene	1.0	0.15	10	1.6
Naphthalene	1.0	0.15	1.2	0.18
2-Methylnaphthalene	1.0	0.15	0.70 J	0.10 J
Diethylphthalate	5.0	0.75	1.1 J	0.17 J
di-n-Butylphthalate	5.0	0.75	0.95 J	0.14 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	24 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	12 NJ
Benzaldehyde	100-52-7	93%	7.9 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Octanal	124-13-0	78%	8.4 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	80%	42 NJ
Decanal	112-31-2	91%	10 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	13 NJ

[redacted]

Lab ID#: 1604002-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	39%	34 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

[redacted]

Lab ID#: 1604002-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	6.8	1.0
Naphthalene	1.0	0.15	0.46 J	0.068 J
Diethylphthalate	5.0	0.73	1.0 J	0.15 J
Phenanthrene	1.0	0.15	0.13 J	0.020 J
di-n-Butylphthalate	5.0	0.73	0.74 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	96%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	33 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	15 NJ
Benzyl Alcohol	100-51-6	91%	9.8 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 31-ST

Lab ID#: 1604002-04A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Pentanedioic acid, dimethyl ester	1119-40-0	83%	9.3 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	35 NJ
Decanal	112-31-2	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	14 NJ
Ethanone, 1-(octahydro-7a-methyl-1H-inde	17986-96-8	35%	8.7 NJ
Tetradecane	629-59-4	98%	7.9 NJ

[redacted]

Lab ID#: 1604002-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.3	0.78
Naphthalene	1.0	0.15	1.5	0.22
Diethylphthalate	5.0	0.74	1.6 J	0.24 J
di-n-Butylphthalate	5.0	0.74	0.99 J	0.15 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	26 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	35 NJ
o-Xylene	95-47-6	97%	7.0 NJ
Ethanol, 2-butoxy-	111-76-2	91%	10 NJ
Benzaldehyde	100-52-7	94%	6.8 NJ
Nonanal	124-19-6	90%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	7.3 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	72%	14 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	83%	7.6 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	7.7 NJ

[redacted]

Lab ID#: 1604002-06A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.2 J	0.62 J
Naphthalene	1.0	0.15	1.2	0.18
Diethylphthalate	5.0	0.74	1.4 J	0.21 J
di-n-Butylphthalate	5.0	0.74	1.1 J	0.16 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
Ethanol, 2-butoxy-	111-76-2	64%	8.6 NJ
Benzaldehyde	100-52-7	80%	5.2 NJ
Octanal	124-13-0	83%	5.6 NJ
Nonanal	124-19-6	78%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	90%	5.4 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	40%	6.1 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	86%	6.6 NJ

[redacted]

Lab ID#: 1604002-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	3.8 J	0.56 J
Naphthalene	1.0	0.15	0.20 J	0.029 J
Diethylphthalate	5.0	0.74	1.4 J	0.20 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	32 NJ
Ethanol, 2,2'-oxybis-	111-46-6	59%	11 NJ
D-Limonene	5989-27-5	94%	7.6 NJ
Nonanal	124-19-6	86%	8.0 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclopentasiloxane, decamethyl-	541-02-6	86%	53 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	91%	4.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	17 NJ

[redacted]

Lab ID#: 1604002-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	1.0	0.15	0.54 J	0.080 J
Naphthalene	1.0	0.15	0.41 J	0.060 J
Acenaphthene	1.0	0.15	0.38 J	0.056 J
2,4-Dinitrotoluene	5.0	0.74	1.1 J	0.17 J
Diethylphthalate	5.0	0.74	1.0 J	0.15 J
Phenanthrene	1.0	0.15	0.24 J	0.035 J
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J
Pyrene	1.0	0.15	0.57 J	0.084 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	5.5 NJ
Tetrachloroethylene	127-18-4	97%	22 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	35 NJ
o-Xylene	95-47-6	97%	6.1 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	78%	5.4 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	5.1 NJ
Nonanal	124-19-6	91%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	23 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Tetradecane	629-59-4	98%	12 NJ

[redacted]

Lab ID#: 1604002-09A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.4 J	0.50 J
Naphthalene	1.0	0.14	1.1	0.16
Diethylphthalate	5.0	0.73	1.2 J	0.17 J
di-n-Butylphthalate	5.0	0.73	0.99 J	0.14 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	32 NJ
1-Hexanamine	111-26-2	68%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	37 NJ
Nonanal	124-19-6	80%	17 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	71 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	86%	15 NJ
Pentasiloxane, dodecamethyl-	141-63-9	94%	31 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	93%	18 NJ
Phthalic acid, 2-ethylhexyl propyl ester	1000309-00-2	72%	14 NJ

[redacted]

Lab ID#: 1604002-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	3.3 J	0.50 J
1,4-Dichlorobenzene	1.0	0.15	32	4.9
Naphthalene	1.0	0.15	0.51 J	0.077 J
Diethylphthalate	5.0	0.75	1.0 J	0.15 J
Phenanthrene	1.0	0.15	0.24 J	0.036 J
di-n-Butylphthalate	5.0	0.75	1.4 J	0.21 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	18 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-10A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclopentasiloxane, decamethyl-	541-02-6	86%	7.2 NJ
Octanoic Acid	124-07-2	58%	4.7 NJ
Decanal	112-31-2	91%	4.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	14 NJ
Isobornyl acetate	125-12-2	90%	15 NJ
Pentadecanoic acid, 14-methyl-, methyl e	5129-60-2	98%	4.1 NJ

[redacted]

Lab ID#: 1604002-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.77	3.0 J	0.46 J
1,4-Dichlorobenzene	1.0	0.15	110	16
Naphthalene	1.0	0.15	0.26 J	0.041 J
Diethylphthalate	5.0	0.77	0.79 J	0.12 J
Phenanthrene	1.0	0.15	0.35 J	0.054 J
Anthracene	1.0	0.15	0.16 J	0.024 J
di-n-Butylphthalate	5.0	0.77	1.2 J	0.18 J
Fluoranthene	1.0	0.15	0.11 J	0.016 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	4.9 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	8.9 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	6.1 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	78%	4.2 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
3-Aminocrotononitrile	1118-61-2	49%	4.2 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	59%	13 NJ
2(3H)-Furanone, 5-heptyldihydro-	104-67-6	78%	5.3 NJ
4-tert-Butylcyclohexyl acetate	32210-23-4	87%	5.9 NJ
Butanoic acid, butyl ester	109-21-7	80%	21 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.10	0.23 J	0.023 J
Diethylphthalate	5.0	0.51	1.6 J	0.17 J
Fluorene	1.0	0.10	0.18 J	0.018 J
Phenanthrene	1.0	0.10	0.30 J	0.031 J
Anthracene	1.0	0.10	0.14 J	0.014 J
di-n-Butylphthalate	5.0	0.51	0.86 J	0.088 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	35 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	9.5 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	4.9 NJ
Nonanal	124-19-6	91%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	36 NJ
Decanal	112-31-2	91%	4.5 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	16 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	92%	5.8 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	4.1 NJ

[redacted]

Lab ID#: 1604002-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.10	0.20 J	0.020 J
Acenaphthene	1.0	0.10	0.21 J	0.021 J
Diethylphthalate	5.0	0.51	1.6 J	0.16 J
Fluorene	1.0	0.10	0.40 J	0.041 J
Phenanthrene	1.0	0.10	0.91 J	0.092 J
Anthracene	1.0	0.10	0.22 J	0.022 J
di-n-Butylphthalate	5.0	0.51	0.91 J	0.092 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-13A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	34 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	8.9 NJ
D-Limonene	5989-27-5	94%	4.6 NJ
Nonanal	124-19-6	78%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	35 NJ
Decanal	112-31-2	91%	4.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	15 NJ
Carvone oxide, trans-	18383-49-8	32%	4.0 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	5.6 NJ

[redacted]

Lab ID#: 1604002-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.14	1.7	0.25
Diethylphthalate	5.0	0.72	0.92 J	0.13 J
di-n-Butylphthalate	5.0	0.72	0.93 J	0.14 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	35 NJ
Octanal	124-13-0	83%	6.8 NJ
1-Hexanol, 2-ethyl-	104-76-7	38%	8.7 NJ
D-Limonene	5989-27-5	94%	11 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	18 NJ
Nonanal	124-19-6	91%	19 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	64%	10 NJ
4-(Prop-2-enoyloxy)octane	42928-87-0	56%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	6.9 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-15A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	4.1 J	0.62 J
Naphthalene	1.0	0.15	0.36 J	0.054 J
2-Methylnaphthalene	1.0	0.15	0.53 J	0.080 J
Diethylphthalate	5.0	0.75	1.2 J	0.18 J
di-n-Butylphthalate	5.0	0.75	0.89 J	0.13 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Butanone, oxime	96-29-7	94%	14 NJ
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	12 NJ
Benzaldehyde	100-52-7	93%	11 NJ
Decane	124-18-5	97%	20 NJ
Nonanal	124-19-6	91%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	80%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	13 NJ

[redacted]

Lab ID#: 1604002-16A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	34 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

[redacted]

Lab ID#: 1604002-17A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	1.0	0.34	1.3	0.45

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-17A

Naphthalene	1.0	0.34	0.50 J	0.17 J
Diethylphthalate	5.0	1.7	0.70 J	0.24 J
di-n-Butylphthalate	5.0	1.7	0.73 J	0.25 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	32 NJ
p-Xylene	106-42-3	97%	5.0 NJ
Nonanal	124-19-6	91%	4.4 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	14 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

[redacted]

Lab ID#: 1604002-18A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Isophorone	1.0	0.15	0.71 J	0.10 J
Naphthalene	1.0	0.15	0.49 J	0.072 J
Diethylphthalate	5.0	0.74	0.88 J	0.13 J
di-n-Butylphthalate	5.0	0.74	0.89 J	0.13 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	35 NJ
n-Butyl ether	142-96-1	72%	5.7 NJ
Ethanol, 2-butoxy-	111-76-2	64%	6.8 NJ
1-Hexanol, 2-ethyl-	104-76-7	64%	11 NJ
D-Limonene	5989-27-5	94%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	5.7 NJ
Ethanol, 2-phenoxy-	122-99-6	96%	6.9 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	79 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	120 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-19A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	6.3 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ

[redacted]

Lab ID#: 1604002-20A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.21 J	0.031 J
Diethylphthalate	5.0	0.73	0.99 J	0.14 J
di-n-Butylphthalate	5.0	0.73	1.0 J	0.15 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	26 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	4.3 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	7.0 NJ
Nonanal	124-19-6	86%	6.1 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(	96-08-2	32%	4.1 NJ
Tetradecane	629-59-4	97%	4.9 NJ

[redacted]

Lab ID#: 1604002-21A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.8	0.83
Naphthalene	1.0	0.14	0.36 J	0.052 J
Phenanthrene	1.0	0.14	0.099 J	0.014 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604002-21A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	33 NJ
Benzaldehyde	100-52-7	94%	4.1 NJ
Octanal	124-13-0	91%	5.4 NJ
Nonanal	124-19-6	91%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	90%	4.0 NJ
Decanal	112-31-2	91%	8.6 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ

[redacted]

Lab ID#: 1604002-22A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.0	0.73
1,4-Dichlorobenzene	1.0	0.14	10	1.4
Naphthalene	1.0	0.14	0.66 J	0.095 J
Diethylphthalate	5.0	0.72	1.4 J	0.20 J
di-n-Butylphthalate	5.0	0.72	0.74 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	25 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	15 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	250 NJ
1,4-Cyclohexadiene, 1-methyl-4-(1-methyl	99-85-4	97%	10 NJ
Nonanal	124-19-6	90%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	16 NJ
Oxirane, dodecyl-	3234-28-4	53%	16 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Isopropyl Myristate	110-27-0	96%	10 NJ

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[redacted]

Lab ID#: 1604002-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040232**	**Date of Collection: 3/30/16 8:49:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 04:29 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.28 J	0.041 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	0.83 J	0.12 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040232**	**Date of Collection: 3/30/16 8:49:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 04:29 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.63 J	0.094 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	33 NJ
Octanal	124-13-0	91%	4.3 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	93%	7.0 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	72%	5.7 NJ
Decanal	112-31-2	91%	4.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Unknown	NA	NA	7.7 J

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[redacted]

Lab ID#: 1604002-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040232**	**Date of Collection: 3/30/16 8:49:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 04:29 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6760

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	83	10-123
Fluorene-d10	80	60-120
Pyrene-d10	96	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604002-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040233**	**Date of Collection: 3/30/16 9:45:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 04:59 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	7.2	1.1
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	10	1.6
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.2	0.18
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.70 J	0.10 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	1.1 J	0.17 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604002-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040233**	**Date of Collection: 3/30/16 9:45:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 04:59 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	0.95 J	0.14 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	24 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	12 NJ
Benzaldehyde	100-52-7	93%	7.9 NJ
Octanal	124-13-0	78%	8.4 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	80%	42 NJ
Decanal	112-31-2	91%	10 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	13 NJ

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Lab ID#: 1604002-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040233**	**Date of Collection: 3/30/16 9:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 04:59 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6620

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	75	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	76	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604002-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040234**	**Date of Collection: 3/30/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 05:29 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.10	Not Detected	Not Detected
2-Chlorophenol	5.0	0.51	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.10	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.10	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.51	Not Detected	Not Detected
Hexachloroethane	1.0	0.10	Not Detected	Not Detected
Nitrobenzene	1.0	0.10	Not Detected	Not Detected
Isophorone	1.0	0.10	Not Detected	Not Detected
2-Nitrophenol	5.0	0.51	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.51	Not Detected	Not Detected
Benzoic Acid	30	3.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.10	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.10	Not Detected	Not Detected
Naphthalene	1.0	0.10	Not Detected	Not Detected
4-Chloroaniline	10	1.0	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.10	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.51	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.10	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.51	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.0	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.10	Not Detected	Not Detected
2-Nitroaniline	10	1.0	Not Detected	Not Detected
Dimethylphthalate	5.0	0.51	Not Detected	Not Detected
Acenaphthylene	1.0	0.10	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
3-Nitroaniline	10	1.0	Not Detected	Not Detected
Acenaphthene	1.0	0.10	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.0	Not Detected	Not Detected
4-Nitrophenol	40	4.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
Dibenzofuran	1.0	0.10	Not Detected	Not Detected
Diethylphthalate	5.0	0.51	Not Detected	Not Detected
Fluorene	1.0	0.10	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected

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Lab ID#: 1604002-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040234**	**Date of Collection: 3/30/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 05:29 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.0	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.0	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.0	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.10	Not Detected	Not Detected
Pentachlorophenol	80	8.1	Not Detected	Not Detected
Phenanthrene	1.0	0.10	Not Detected	Not Detected
Anthracene	1.0	0.10	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.51	Not Detected	Not Detected
Fluoranthene	1.0	0.10	Not Detected	Not Detected
Pyrene	1.0	0.10	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.51	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.0	Not Detected	Not Detected
Chrysene	1.0	0.10	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.10	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.51	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.51	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.10	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.10	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.10	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.10	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	39%	34 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

Air Sample Volume(L): 9880

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	75	10-123

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Lab ID#: 1604002-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040234**	**Date of Collection:**	**3/30/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 05:29 AM**
		Date of Extraction:	**4/1/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	78	60-120
Pyrene-d10	95	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1604002-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040235**	**Date of Collection: 3/30/16 10:38:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 05:58 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	6.8	1.0
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.46 J	0.068 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	1.0 J	0.15 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040235**	**Date of Collection:**	**3/30/16 10:38:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 05:58 AM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.13 J	0.020 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	0.74 J	0.11 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	96%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	33 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	15 NJ
Benzyl Alcohol	100-51-6	91%	9.8 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	9.3 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	35 NJ
Decanal	112-31-2	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	14 NJ
Ethanone, 1-(octahydro-7a-methyl-1H-inde	17986-96-8	35%	8.7 NJ
Tetradecane	629-59-4	98%	7.9 NJ

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Lab ID#: 1604002-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040235**	**Date of Collection: 3/30/16 10:38:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 05:58 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6830

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	79	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	104	50-150

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Lab ID#: 1604002-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040236**	**Date of Collection:**	**3/30/16 11:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 06:28 AM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.3	0.78
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.5	0.22
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.6 J	0.24 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040236**	**Date of Collection:**	**3/30/16 11:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 06:28 AM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.99 J	0.15 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	26 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	35 NJ
o-Xylene	95-47-6	97%	7.0 NJ
Ethanol, 2-butoxy-	111-76-2	91%	10 NJ
Benzaldehyde	100-52-7	94%	6.8 NJ
Nonanal	124-19-6	90%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	7.3 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	72%	14 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	83%	7.6 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	7.7 NJ

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Lab ID#: 1604002-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040236**	**Date of Collection: 3/30/16 11:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 06:28 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	69	10-123
Fluorene-d10	77	60-120
Pyrene-d10	85	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1604002-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040237**	**Date of Collection: 3/30/16 11:35:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 06:58 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.2 J	0.62 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.2	0.18
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.4 J	0.21 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040237**	**Date of Collection:**	**3/30/16 11:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 06:58 AM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.1 J	0.16 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
Ethanol, 2-butoxy-	111-76-2	64%	8.6 NJ
Benzaldehyde	100-52-7	80%	5.2 NJ
Octanal	124-13-0	83%	5.6 NJ
Nonanal	124-19-6	78%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	90%	5.4 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	40%	6.1 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	86%	6.6 NJ

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Lab ID#: 1604002-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040237**	**Date of Collection: 3/30/16 11:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 06:58 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	54	21-110
Phenol-d5	67	10-110
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	69	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	88	50-150

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[redacted]

Lab ID#: 1604002-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040238**	**Date of Collection: 3/30/16 12:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 07:27 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	3.8 J	0.56 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.20 J	0.029 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.4 J	0.20 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040238**	**Date of Collection: 3/30/16 12:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 07:27 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	32 NJ
Ethanol, 2,2'-oxybis-	111-46-6	59%	11 NJ
D-Limonene	5989-27-5	94%	7.6 NJ
Nonanal	124-19-6	86%	8.0 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	53 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	91%	4.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	17 NJ

Air Sample Volume(L): 6710

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604002-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040238**	**Date of Collection: 3/30/16 12:49:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 07:27 AM**
		Date of Extraction: 4/1/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	78	60-120
Pyrene-d10	85	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	106	50-150

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Lab ID#: 1604002-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040239**	**Date of Collection: 3/30/16 1:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 07:57 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.54 J	0.080 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.41 J	0.060 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	0.38 J	0.056 J
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	1.1 J	0.17 J
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.0 J	0.15 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040239**	**Date of Collection: 3/30/16 1:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 07:57 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.24 J	0.035 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	0.57 J	0.084 J
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	5.5 NJ
Tetrachloroethylene	127-18-4	97%	22 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	35 NJ
o-Xylene	95-47-6	97%	6.1 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	78%	5.4 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	5.1 NJ
Nonanal	124-19-6	91%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	23 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Tetradecane	629-59-4	98%	12 NJ

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Lab ID#: 1604002-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040239**	**Date of Collection: 3/30/16 1:49:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 07:57 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6760

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	83	60-120
Pyrene-d10	91	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604002-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040240**	**Date of Collection: 3/30/16 2:54:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 08:27 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.4 J	0.50 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.1	0.16
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	1.2 J	0.17 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604002-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040240**	**Date of Collection:**	**3/30/16 2:54:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 08:27 AM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	0.99 J	0.14 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	32 NJ
1-Hexanamine	111-26-2	68%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	37 NJ
Nonanal	124-19-6	80%	17 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	71 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	86%	15 NJ
Pentasiloxane, dodecamethyl-	141-63-9	94%	31 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	93%	18 NJ
Phthalic acid, 2-ethylhexyl propyl ester	1000309-00-2	72%	14 NJ

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Lab ID#: 1604002-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040240**	**Date of Collection: 3/30/16 2:54:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 08:27 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	77	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604002-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040241**	**Date of Collection: 3/30/16 4:01:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 08:56 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	3.3 J	0.50 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	32	4.9
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.51 J	0.077 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	1.0 J	0.15 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040241**	**Date of Collection: 3/30/16 4:01:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 08:56 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.24 J	0.036 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	1.4 J	0.21 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	7.2 NJ
Octanoic Acid	124-07-2	58%	4.7 NJ
Decanal	112-31-2	91%	4.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	14 NJ
Isobornyl acetate	125-12-2	90%	15 NJ
Pentadecanoic acid, 14-methyl-, methyl e	5129-60-2	98%	4.1 NJ

Air Sample Volume(L): 6640

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604002-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040241**	**Date of Collection: 3/30/16 4:01:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 08:56 AM**
		Date of Extraction: 4/1/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	83	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1604002-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040242**	**Date of Collection: 3/30/16 3:08:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 09:26 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.77	3.0 J	0.46 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.77	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	110	16
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.77	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.77	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.77	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.77	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.77	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.26 J	0.041 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.77	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.1	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.77	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.77	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.77	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.2	Not Detected	Not Detected
4-Nitrophenol	40	6.2	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.77	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.77	0.79 J	0.12 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040242**	**Date of Collection: 3/30/16 3:08:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 09:26 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.35 J	0.054 J
Anthracene	1.0	0.15	0.16 J	0.024 J
di-n-Butylphthalate	5.0	0.77	1.2 J	0.18 J
Fluoranthene	1.0	0.15	0.11 J	0.016 J
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.77	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.1	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.77	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.77	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	4.9 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	8.9 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	6.1 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	78%	4.2 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
3-Aminocrotononitrile	1118-61-2	49%	4.2 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	59%	13 NJ
2(3H)-Furanone, 5-heptyldihydro-	104-67-6	78%	5.3 NJ
4-tert-Butylcyclohexyl acetate	32210-23-4	87%	5.9 NJ
Butanoic acid, butyl ester	109-21-7	80%	21 NJ

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Lab ID#: 1604002-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040242**	**Date of Collection: 3/30/16 3:08:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 09:26 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6500

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	74	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	79	60-120
Pyrene-d10	91	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1604002-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040243**	**Date of Collection: 3/30/16 9:14:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 09:55 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.10	Not Detected	Not Detected
2-Chlorophenol	5.0	0.51	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.10	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.10	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.51	Not Detected	Not Detected
Hexachloroethane	1.0	0.10	Not Detected	Not Detected
Nitrobenzene	1.0	0.10	Not Detected	Not Detected
Isophorone	1.0	0.10	Not Detected	Not Detected
2-Nitrophenol	5.0	0.51	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.51	Not Detected	Not Detected
Benzoic Acid	30	3.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.10	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.10	Not Detected	Not Detected
Naphthalene	1.0	0.10	0.23 J	0.023 J
4-Chloroaniline	10	1.0	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.10	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.51	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.10	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.51	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.0	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.10	Not Detected	Not Detected
2-Nitroaniline	10	1.0	Not Detected	Not Detected
Dimethylphthalate	5.0	0.51	Not Detected	Not Detected
Acenaphthylene	1.0	0.10	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
3-Nitroaniline	10	1.0	Not Detected	Not Detected
Acenaphthene	1.0	0.10	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.1	Not Detected	Not Detected
4-Nitrophenol	40	4.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
Dibenzofuran	1.0	0.10	Not Detected	Not Detected
Diethylphthalate	5.0	0.51	1.6 J	0.17 J
Fluorene	1.0	0.10	0.18 J	0.018 J
4-Chlorophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected

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Lab ID#: 1604002-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040243**	**Date of Collection: 3/30/16 9:14:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 09:55 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.0	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.0	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.0	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.10	Not Detected	Not Detected
Pentachlorophenol	80	8.1	Not Detected	Not Detected
Phenanthrene	1.0	0.10	0.30 J	0.031 J
Anthracene	1.0	0.10	0.14 J	0.014 J
di-n-Butylphthalate	5.0	0.51	0.86 J	0.088 J
Fluoranthene	1.0	0.10	Not Detected	Not Detected
Pyrene	1.0	0.10	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.51	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.0	Not Detected	Not Detected
Chrysene	1.0	0.10	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.10	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.51	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.51	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.10	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.10	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.10	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.10	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	35 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	9.5 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	4.9 NJ
Nonanal	124-19-6	91%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	36 NJ
Decanal	112-31-2	91%	4.5 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	16 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyri midi	40732-58-9	92%	5.8 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	4.1 NJ

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Lab ID#: 1604002-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040243**	**Date of Collection: 3/30/16 9:14:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 09:55 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 9830

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	82	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	73	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604002-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040244**	**Date of Collection: 3/30/16 9:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 10:25 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.10	Not Detected	Not Detected
2-Chlorophenol	5.0	0.51	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.10	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.10	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.51	Not Detected	Not Detected
Hexachloroethane	1.0	0.10	Not Detected	Not Detected
Nitrobenzene	1.0	0.10	Not Detected	Not Detected
Isophorone	1.0	0.10	Not Detected	Not Detected
2-Nitrophenol	5.0	0.51	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.51	Not Detected	Not Detected
Benzoic Acid	30	3.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.10	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.10	Not Detected	Not Detected
Naphthalene	1.0	0.10	0.20 J	0.020 J
4-Chloroaniline	10	1.0	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.10	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.51	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.10	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.51	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.0	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.10	Not Detected	Not Detected
2-Nitroaniline	10	1.0	Not Detected	Not Detected
Dimethylphthalate	5.0	0.51	Not Detected	Not Detected
Acenaphthylene	1.0	0.10	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
3-Nitroaniline	10	1.0	Not Detected	Not Detected
Acenaphthene	1.0	0.10	0.21 J	0.021 J
2,4-Dinitrophenol	40	4.0	Not Detected	Not Detected
4-Nitrophenol	40	4.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
Dibenzofuran	1.0	0.10	Not Detected	Not Detected
Diethylphthalate	5.0	0.51	1.6 J	0.16 J
Fluorene	1.0	0.10	0.40 J	0.041 J
4-Chlorophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected

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Lab ID#: 1604002-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040244**	**Date of Collection: 3/30/16 9:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 10:25 AM**
		Date of Extraction: 4/1/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.0	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.0	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.0	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.10	Not Detected	Not Detected
Pentachlorophenol	80	8.1	Not Detected	Not Detected
Phenanthrene	1.0	0.10	0.91 J	0.092 J
Anthracene	1.0	0.10	0.22 J	0.022 J
di-n-Butylphthalate	5.0	0.51	0.91 J	0.092 J
Fluoranthene	1.0	0.10	Not Detected	Not Detected
Pyrene	1.0	0.10	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.51	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.0	Not Detected	Not Detected
Chrysene	1.0	0.10	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.10	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.51	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.51	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.10	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.10	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.10	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.10	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	34 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	8.9 NJ
D-Limonene	5989-27-5	94%	4.6 NJ
Nonanal	124-19-6	78%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	35 NJ
Decanal	112-31-2	91%	4.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	15 NJ
Carvone oxide, trans-	18383-49-8	32%	4.0 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	5.6 NJ

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Lab ID#: 1604002-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040244**	**Date of Collection: 3/30/16 9:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 10:25 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 9880

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	87	10-123
Fluorene-d10	85	60-120
Pyrene-d10	94	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604002-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040245**	**Date of Collection: 3/30/16 10:09:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 10:54 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.7	0.25
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	0.92 J	0.13 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604002-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040245**	**Date of Collection:**	**3/30/16 10:09:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 10:54 AM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	0.93 J	0.14 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	35 NJ
Octanal	124-13-0	83%	6.8 NJ
1-Hexanol, 2-ethyl-	104-76-7	38%	8.7 NJ
D-Limonene	5989-27-5	94%	11 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	18 NJ
Nonanal	124-19-6	91%	19 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	64%	10 NJ
4-(Prop-2-enoyloxy)octane	42928-87-0	56%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	6.9 NJ

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Lab ID#: 1604002-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040245**	**Date of Collection: 3/30/16 10:09:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 10:54 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6890

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	68	10-123
Fluorene-d10	74	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1604002-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040246**	**Date of Collection: 3/30/16 10:50:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 11:24 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	4.1 J	0.62 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.36 J	0.054 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.53 J	0.080 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	1.2 J	0.18 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name: 12040246
Dil. Factor: 1.00

Date of Collection: 3/30/16 10:50:00 AM
Date of Analysis: 4/3/16 11:24 AM
Date of Extraction: 4/1/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	0.89 J	0.13 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Butanone, oxime	96-29-7	94%	14 NJ
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	12 NJ
Benzaldehyde	100-52-7	93%	11 NJ
Decane	124-18-5	97%	20 NJ
Nonanal	124-19-6	91%	13 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	80%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	13 NJ

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Lab ID#: 1604002-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040246**	**Date of Collection: 3/30/16 10:50:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 11:24 AM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6650

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	77	60-120
Pyrene-d10	87	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604002-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040247**	**Date of Collection: 3/30/16 11:00:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 11:53 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040247**	**Date of Collection: 3/30/16 11:00:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 11:53 AM**
		Date of Extraction: 4/1/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	34 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

Air Sample Volume(L): 6820

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	69	10-123

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Lab ID#: 1604002-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040247**	**Date of Collection: 3/30/16 11:00:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 11:53 AM**
		Date of Extraction: 4/1/16

Surrogates	%Recovery	Method Limits
Fluorene-d10	75	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	91	50-150

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Lab ID#: 1604002-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040248**	**Date of Collection: 3/30/16 10:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:23 PM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	1.7	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.34	Not Detected	Not Detected
2-Chlorophenol	5.0	1.7	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.34	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.34	1.3	0.45
1,2-Dichlorobenzene	1.0	0.34	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	1.7	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.34	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.34	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	1.7	Not Detected	Not Detected
Hexachloroethane	1.0	0.34	Not Detected	Not Detected
Nitrobenzene	1.0	0.34	Not Detected	Not Detected
Isophorone	1.0	0.34	Not Detected	Not Detected
2-Nitrophenol	5.0	1.7	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	1.7	Not Detected	Not Detected
Benzoic Acid	30	10	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.34	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	1.7	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.34	Not Detected	Not Detected
Naphthalene	1.0	0.34	0.50 J	0.17 J
4-Chloroaniline	10	3.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.34	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	1.7	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.34	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	6.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	1.7	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	3.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.34	Not Detected	Not Detected
2-Nitroaniline	10	3.4	Not Detected	Not Detected
Dimethylphthalate	5.0	1.7	Not Detected	Not Detected
Acenaphthylene	1.0	0.34	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	1.7	Not Detected	Not Detected
3-Nitroaniline	10	3.4	Not Detected	Not Detected
Acenaphthene	1.0	0.34	Not Detected	Not Detected
2,4-Dinitrophenol	40	14	Not Detected	Not Detected
4-Nitrophenol	40	14	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	1.7	Not Detected	Not Detected
Dibenzofuran	1.0	0.34	Not Detected	Not Detected
Diethylphthalate	5.0	1.7	0.70 J	0.24 J
Fluorene	1.0	0.34	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.34	Not Detected	Not Detected

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Lab ID#: 1604002-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040248**	**Date of Collection: 3/30/16 10:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:23 PM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	3.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	3.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	3.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.34	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.34	Not Detected	Not Detected
Pentachlorophenol	80	28	Not Detected	Not Detected
Phenanthrene	1.0	0.34	Not Detected	Not Detected
Anthracene	1.0	0.34	Not Detected	Not Detected
di-n-Butylphthalate	5.0	1.7	0.73 J	0.25 J
Fluoranthene	1.0	0.34	Not Detected	Not Detected
Pyrene	1.0	0.34	Not Detected	Not Detected
Butylbenzylphthalate	5.0	1.7	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	6.9	Not Detected	Not Detected
Chrysene	1.0	0.34	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.34	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	1.7	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	1.7	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.34	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.34	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.34	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.34	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.34	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.34	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	32 NJ
p-Xylene	106-42-3	97%	5.0 NJ
Nonanal	124-19-6	91%	4.4 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	14 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

Air Sample Volume(L): 2900

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits

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Lab ID#: 1604002-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040248**	**Date of Collection: 3/30/16 10:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:23 PM**
		Date of Extraction: 4/1/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	81	10-123
Fluorene-d10	77	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	79	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604002-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040249**	**Date of Collection: 3/30/16 1:55:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:52 PM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	0.71 J	0.10 J
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.49 J	0.072 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	0.88 J	0.13 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040249**	**Date of Collection: 3/30/16 1:55:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:52 PM**
		Date of Extraction: 4/1/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.89 J	0.13 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	35 NJ
n-Butyl ether	142-96-1	72%	5.7 NJ
Ethanol, 2-butoxy-	111-76-2	64%	6.8 NJ
1-Hexanol, 2-ethyl-	104-76-7	64%	11 NJ
D-Limonene	5989-27-5	94%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	5.7 NJ
Ethanol, 2-phenoxy-	122-99-6	96%	6.9 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	79 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	120 NJ

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Lab ID#: 1604002-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040249**	**Date of Collection: 3/30/16 1:55:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 12:52 PM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	77	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1604002-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040231**	**Date of Collection: 3/30/16 2:17:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:59 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.10	Not Detected	Not Detected
2-Chlorophenol	5.0	0.51	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.10	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.10	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.51	Not Detected	Not Detected
Hexachloroethane	1.0	0.10	Not Detected	Not Detected
Nitrobenzene	1.0	0.10	Not Detected	Not Detected
Isophorone	1.0	0.10	Not Detected	Not Detected
2-Nitrophenol	5.0	0.51	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.51	Not Detected	Not Detected
Benzoic Acid	30	3.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.10	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.10	Not Detected	Not Detected
Naphthalene	1.0	0.10	Not Detected	Not Detected
4-Chloroaniline	10	1.0	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.10	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.51	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.10	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.51	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.0	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.10	Not Detected	Not Detected
2-Nitroaniline	10	1.0	Not Detected	Not Detected
Dimethylphthalate	5.0	0.51	Not Detected	Not Detected
Acenaphthylene	1.0	0.10	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
3-Nitroaniline	10	1.0	Not Detected	Not Detected
Acenaphthene	1.0	0.10	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.0	Not Detected	Not Detected
4-Nitrophenol	40	4.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
Dibenzofuran	1.0	0.10	Not Detected	Not Detected
Diethylphthalate	5.0	0.51	Not Detected	Not Detected
Fluorene	1.0	0.10	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected

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Lab ID#: 1604002-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040231**	**Date of Collection: 3/30/16 2:17:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:59 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.0	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.0	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.0	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.10	Not Detected	Not Detected
Pentachlorophenol	80	8.1	Not Detected	Not Detected
Phenanthrene	1.0	0.10	Not Detected	Not Detected
Anthracene	1.0	0.10	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.51	Not Detected	Not Detected
Fluoranthene	1.0	0.10	Not Detected	Not Detected
Pyrene	1.0	0.10	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.51	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.0	Not Detected	Not Detected
Chrysene	1.0	0.10	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.10	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.51	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.51	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.10	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.10	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.10	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.10	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	6.3 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ

Air Sample Volume(L): 9880

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	46	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	69	35-114
2,4,6-Tribromophenol	67	10-123

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Lab ID#: 1604002-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040231**	**Date of Collection: 3/30/16 2:17:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:59 AM**
		Date of Extraction: 4/1/16

Surrogates	%Recovery	Method Limits
Fluorene-d10	73	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	88	50-150

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Lab ID#: 1604002-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040250**	**Date of Collection: 3/30/16 2:21:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 01:22 PM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.21 J	0.031 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	0.99 J	0.14 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604002-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040250**	**Date of Collection:**	**3/30/16 2:21:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/3/16 01:22 PM**
		Date of Extraction:	**4/1/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.0 J	0.15 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	26 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	4.3 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	7.0 NJ
Nonanal	124-19-6	86%	6.1 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(	96-08-2	32%	4.1 NJ
Tetradecane	629-59-4	97%	4.9 NJ

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Lab ID#: 1604002-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040250**	**Date of Collection: 3/30/16 2:21:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 01:22 PM**
		Date of Extraction: 4/1/16

Air Sample Volume(L): 6810

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	54	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	65	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	68	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	74	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604002-21A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040427**	**Date of Collection: 3/30/16 3:37:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 04:45 AM**	
		Date of Extraction: 4/2/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.8	0.83
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.36 J	0.052 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604002-21A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040427**	**Date of Collection: 3/30/16 3:37:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 04:45 AM**	
		Date of Extraction: 4/2/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.099 J	0.014 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	33 NJ
Benzaldehyde	100-52-7	94%	4.1 NJ
Octanal	124-13-0	91%	5.4 NJ
Nonanal	124-19-6	91%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	90%	4.0 NJ
Decanal	112-31-2	91%	8.6 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604002-21A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040427**	**Date of Collection: 3/30/16 3:37:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 04:45 AM**
		Date of Extraction: 4/2/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	75	10-123
Fluorene-d10	80	60-120
Pyrene-d10	95	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1604002-22A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040428**	**Date of Collection: 3/30/16 4:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 05:15 AM**	
		Date of Extraction: 4/2/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.0	0.73
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	10	1.4
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.66 J	0.095 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	1.4 J	0.20 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604002-22A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040428**	**Date of Collection: 3/30/16 4:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 05:15 AM**	
		Date of Extraction: 4/2/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	0.74 J	0.11 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	25 NJ
Benzene,	527-84-4	94%	15 NJ
1-methyl-2-(1-methylethyl)-Cyclohexene,	5989-54-8	96%	250 NJ
1-methyl-4-(1-methylethenyl 1,4-Cyclohexadiene,	99-85-4	97%	10 NJ
1-methyl-4-(1-methyl Nonanal	124-19-6	90%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	16 NJ
Oxirane, dodecyl-	3234-28-4	53%	16 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Isopropyl Myristate	110-27-0	96%	10 NJ

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Lab ID#: 1604002-22A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040428**	**Date of Collection: 3/30/16 4:20:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 05:15 AM**
		Date of Extraction: 4/2/16

Air Sample Volume(L): 6930

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	79	60-120
Pyrene-d10	93	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1604002-23A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040230**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:30 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.10	Not Detected	Not Detected
2-Chlorophenol	5.0	0.51	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.10	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.10	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.51	Not Detected	Not Detected
Hexachloroethane	1.0	0.10	Not Detected	Not Detected
Nitrobenzene	1.0	0.10	Not Detected	Not Detected
Isophorone	1.0	0.10	Not Detected	Not Detected
2-Nitrophenol	5.0	0.51	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.51	Not Detected	Not Detected
Benzoic Acid	30	3.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.10	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.10	Not Detected	Not Detected
Naphthalene	1.0	0.10	Not Detected	Not Detected
4-Chloroaniline	10	1.0	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.10	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.51	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.10	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.51	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.0	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.10	Not Detected	Not Detected
2-Nitroaniline	10	1.0	Not Detected	Not Detected
Dimethylphthalate	5.0	0.51	Not Detected	Not Detected
Acenaphthylene	1.0	0.10	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
3-Nitroaniline	10	1.0	Not Detected	Not Detected
Acenaphthene	1.0	0.10	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.0	Not Detected	Not Detected
4-Nitrophenol	40	4.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
Dibenzofuran	1.0	0.10	Not Detected	Not Detected
Diethylphthalate	5.0	0.51	Not Detected	Not Detected
Fluorene	1.0	0.10	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected

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Lab ID#: 1604002-23A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040230**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:30 AM**	
		Date of Extraction: 4/1/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.0	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.0	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.0	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.10	Not Detected	Not Detected
Pentachlorophenol	80	8.1	Not Detected	Not Detected
Phenanthrene	1.0	0.10	Not Detected	Not Detected
Anthracene	1.0	0.10	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.51	Not Detected	Not Detected
Fluoranthene	1.0	0.10	Not Detected	Not Detected
Pyrene	1.0	0.10	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.51	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.0	Not Detected	Not Detected
Chrysene	1.0	0.10	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.10	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.51	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.51	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.10	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.10	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.10	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.10	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	13 NJ

Air Sample Volume(L): 9880

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	59	21-110
Phenol-d5	76	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	68	10-123

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Lab ID#: 1604002-23A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040230**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:30 AM**	
		Date of Extraction: 4/1/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	79	60-120
Pyrene-d10	93	60-120
Benzo(a)pyrene-d12	94	50-150
Fluoranthene-d10	104	50-150

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Lab ID#: 1604002-23B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:29 AM**	
		Date of Extraction: 4/2/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.10	Not Detected	Not Detected
2-Chlorophenol	5.0	0.51	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.10	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.51	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.10	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.10	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.51	Not Detected	Not Detected
Hexachloroethane	1.0	0.10	Not Detected	Not Detected
Nitrobenzene	1.0	0.10	Not Detected	Not Detected
Isophorone	1.0	0.10	Not Detected	Not Detected
2-Nitrophenol	5.0	0.51	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.51	Not Detected	Not Detected
Benzoic Acid	30	3.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.10	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.10	Not Detected	Not Detected
Naphthalene	1.0	0.10	Not Detected	Not Detected
4-Chloroaniline	10	1.0	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.10	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.51	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.10	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.51	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.0	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.10	Not Detected	Not Detected
2-Nitroaniline	10	1.0	Not Detected	Not Detected
Dimethylphthalate	5.0	0.51	Not Detected	Not Detected
Acenaphthylene	1.0	0.10	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
3-Nitroaniline	10	1.0	Not Detected	Not Detected
Acenaphthene	1.0	0.10	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.0	Not Detected	Not Detected
4-Nitrophenol	40	4.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.51	Not Detected	Not Detected
Dibenzofuran	1.0	0.10	Not Detected	Not Detected
Diethylphthalate	5.0	0.51	Not Detected	Not Detected
Fluorene	1.0	0.10	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected

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Lab ID#: 1604002-23B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:29 AM**	
		Date of Extraction: 4/2/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.0	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.0	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.0	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.10	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.10	Not Detected	Not Detected
Pentachlorophenol	80	8.1	Not Detected	Not Detected
Phenanthrene	1.0	0.10	Not Detected	Not Detected
Anthracene	1.0	0.10	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.51	Not Detected	Not Detected
Fluoranthene	1.0	0.10	Not Detected	Not Detected
Pyrene	1.0	0.10	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.51	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.0	Not Detected	Not Detected
Chrysene	1.0	0.10	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.10	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.51	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.51	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.10	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.10	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.10	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.10	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.10	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	5.5 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	40%	18 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	8.1 NJ

Air Sample Volume(L): 9880

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	44	21-110
Phenol-d5	56	10-110
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	47	10-123

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Lab ID#: 1604002-23B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:29 AM**	
		Date of Extraction: 4/2/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	67	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	73	50-150
Fluoranthene-d10	86	50-150

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Lab ID#: 1604002-24A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040227**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 02:01 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	105
bis(2-Chloroethyl) Ether	104
2-Chlorophenol	107
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	104
1,2-Dichlorobenzene	103
2-Methylphenol (o-Cresol)	105
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	112
4-Methylphenol/3-Methylphenol	108
Hexachloroethane	105
Nitrobenzene	109
Isophorone	112
2-Nitrophenol	112
2,4-Dimethylphenol	108
Benzoic Acid	103
bis(2-Chloroethoxy) Methane	110
2,4-Dichlorophenol	111
1,2,4-Trichlorobenzene	106
Naphthalene	106
4-Chloroaniline	102
Hexachlorobutadiene	104
4-Chloro-3-methylphenol	108
2-Methylnaphthalene	104
Hexachlorocyclopentadiene	104
2,4,6-Trichlorophenol	109
2,4,5-Trichlorophenol	114
2-Chloronaphthalene	106
2-Nitroaniline	110
Dimethylphthalate	106
Acenaphthylene	105
2,6-Dinitrotoluene	106
3-Nitroaniline	112
Acenaphthene	106
2,4-Dinitrophenol	77
4-Nitrophenol	96
2,4-Dinitrotoluene	109
Dibenzofuran	104
Diethylphthalate	106
Fluorene	106
4-Chlorophenyl-phenyl Ether	106

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Lab ID#: 1604002-24A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040227**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 02:01 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	100
4,6-Dinitro-2-methylphenol	97
N-Nitrosodiphenylamine	103
4-Bromophenyl-phenyl Ether	106
Hexachlorobenzene	106
Pentachlorophenol	68 Q
Phenanthrene	104
Anthracene	109
di-n-Butylphthalate	106
Fluoranthene	101
Pyrene	110
Butylbenzylphthalate	112
3,3'-Dichlorobenzidine	100
Chrysene	106
Benzo(a)anthracene	107
bis(2-Ethylhexyl)phthalate	113
Di-n-Octylphthalate	113
Benzo(b)fluoranthene	108
Benzo(k)fluoranthene	110
Benzo(a)pyrene	112
Indeno(1,2,3-c,d)pyrene	110
Dibenz(a,h)anthracene	107
Benzo(g,h,i)perylene	108

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	107	21-110
Phenol-d5	107	10-110
Nitrobenzene-d5	110	35-114
2,4,6-Tribromophenol	109	10-123
Fluorene-d10	106	60-120
Pyrene-d10	112	60-120
Benzo(a)pyrene-d12	113	50-150
Fluoranthene-d10	102	50-150

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Lab ID#: 1604002-24B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	101
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
1,2-Dichlorobenzene	100
2-Methylphenol (o-Cresol)	105
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	112
4-Methylphenol/3-Methylphenol	106
Hexachloroethane	102
Nitrobenzene	103
Isophorone	108
2-Nitrophenol	97
2,4-Dimethylphenol	101
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	102
2,4-Dichlorophenol	104
1,2,4-Trichlorobenzene	97
Naphthalene	98
4-Chloroaniline	101
Hexachlorobutadiene	96
4-Chloro-3-methylphenol	114
2-Methylnaphthalene	103
Hexachlorocyclopentadiene	98
2,4,6-Trichlorophenol	102
2,4,5-Trichlorophenol	108
2-Chloronaphthalene	101
2-Nitroaniline	109
Dimethylphthalate	105
Acenaphthylene	104
2,6-Dinitrotoluene	104
3-Nitroaniline	104
Acenaphthene	103
2,4-Dinitrophenol	75
4-Nitrophenol	108
2,4-Dinitrotoluene	116
Dibenzofuran	104
Diethylphthalate	106
Fluorene	106
4-Chlorophenyl-phenyl Ether	103

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Lab ID#: 1604002-24B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	106
4,6-Dinitro-2-methylphenol	104
N-Nitrosodiphenylamine	100
4-Bromophenyl-phenyl Ether	101
Hexachlorobenzene	100
Pentachlorophenol	92
Phenanthrene	101
Anthracene	105
di-n-Butylphthalate	107
Fluoranthene	106
Pyrene	111
Butylbenzylphthalate	112
3,3'-Dichlorobenzidine	91
Chrysene	101
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	108
Di-n-Octylphthalate	112
Benzo(b)fluoranthene	105
Benzo(k)fluoranthene	109
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	100
Dibenz(a,h)anthracene	101
Benzo(g,h,i)perylene	101

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	106	21-110
Phenol-d5	102	10-110
Nitrobenzene-d5	104	35-114
2,4,6-Tribromophenol	111	10-123
Fluorene-d10	106	60-120
Pyrene-d10	110	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	106	50-150

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Lab ID#: 1604002-24C

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 09:00 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	108
bis(2-Chloroethyl) Ether	101
2-Chlorophenol	100
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
1,2-Dichlorobenzene	100
2-Methylphenol (o-Cresol)	102
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	106
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	103
Nitrobenzene	106
Isophorone	108
2-Nitrophenol	108
2,4-Dimethylphenol	100
Benzoic Acid	99
bis(2-Chloroethoxy) Methane	105
2,4-Dichlorophenol	106
1,2,4-Trichlorobenzene	104
Naphthalene	104
4-Chloroaniline	100
Hexachlorobutadiene	102
4-Chloro-3-methylphenol	106
2-Methylnaphthalene	102
Hexachlorocyclopentadiene	102
2,4,6-Trichlorophenol	107
2,4,5-Trichlorophenol	111
2-Chloronaphthalene	102
2-Nitroaniline	109
Dimethylphthalate	102
Acenaphthylene	104
2,6-Dinitrotoluene	103
3-Nitroaniline	108
Acenaphthene	103
2,4-Dinitrophenol	92
4-Nitrophenol	100
2,4-Dinitrotoluene	102
Dibenzofuran	102
Diethylphthalate	101
Fluorene	100
4-Chlorophenyl-phenyl Ether	102

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Lab ID#: 1604002-24C

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 09:00 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	94
4,6-Dinitro-2-methylphenol	106
N-Nitrosodiphenylamine	98
4-Bromophenyl-phenyl Ether	103
Hexachlorobenzene	100
Pentachlorophenol	95
Phenanthrene	100
Anthracene	103
di-n-Butylphthalate	104
Fluoranthene	102
Pyrene	101
Butylbenzylphthalate	106
3,3'-Dichlorobenzidine	96
Chrysene	102
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	104
Di-n-Octylphthalate	108
Benzo(b)fluoranthene	105
Benzo(k)fluoranthene	109
Benzo(a)pyrene	109
Indeno(1,2,3-c,d)pyrene	106
Dibenz(a,h)anthracene	106
Benzo(g,h,i)perylene	106

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	104	21-110
Phenol-d5	103	10-110
Nitrobenzene-d5	109	35-114
2,4,6-Tribromophenol	106	10-123
Fluorene-d10	100	60-120
Pyrene-d10	103	60-120
Benzo(a)pyrene-d12	111	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604002-25A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040228**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 02:31 AM**	
		Date of Extraction: 4/1/16	

Compound	%Recovery	Method Limits
Phenol	80	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	70	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	88	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	84	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	76	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	50	10-80
2,4-Dinitrotoluene	84	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604002-25A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040228**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 02:31 AM**	
		Date of Extraction: 4/1/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	9.0	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	88	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	61	21-110
Phenol-d5	73	10-110
Nitrobenzene-d5	73	35-114
2,4,6-Tribromophenol	66	10-123
Fluorene-d10	67	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	80	50-150

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[redacted]

Lab ID#: 1604002-25AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040229**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:00 AM**	
		Date of Extraction: 4/1/16	

Compound	%Recovery	Method Limits
Phenol	78	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	63	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	94	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	77	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	92	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	85	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	62	10-80
2,4-Dinitrotoluene	95	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604002-25AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040229**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/3/16 03:00 AM**	
		Date of Extraction: 4/1/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	11	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	103	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	76	60-120
Pyrene-d10	94	60-120
Benzo(a)pyrene-d12	94	50-150
Fluoranthene-d10	100	50-150

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[redacted]

Lab ID#: 1604002-25B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040814**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 05:43 PM**	
		Date of Extraction: 4/2/16	

Compound	%Recovery	Method Limits
Phenol	64	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	59	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	53	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	76	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	62	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	74	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	70	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	28	10-80
2,4-Dinitrotoluene	77	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604002-25B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040814**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 05:43 PM**	
		Date of Extraction: 4/2/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	1.8 Q	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	79	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	45	21-110
Phenol-d5	59	10-110
Nitrobenzene-d5	63	35-114
2,4,6-Tribromophenol	61	10-123
Fluorene-d10	63	60-120
Pyrene-d10	72	60-120
Benzo(a)pyrene-d12	71	50-150
Fluoranthene-d10	79	50-150

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[redacted]

Lab ID#: 1604002-25BB

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:00 AM**	
		Date of Extraction: 4/2/16	

Compound	%Recovery	Method Limits
Phenol	76	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	65	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	90	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	76	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	81	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	84	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	11	10-80
2,4-Dinitrotoluene	87	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604002-25BB

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:00 AM**	
		Date of Extraction: 4/2/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	Not Spiked UQ	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	101	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

U = The analyte was not present above the Method Detection Limit.

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	73	35-114
2,4,6-Tribromophenol	63	10-123
Fluorene-d10	74	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	83	50-150
Fluoranthene-d10	92	50-150

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 3/30/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez / IZ / SH / LHW
	Rotameter: Key Instruments **Serial # :** 001154	**Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
19 7-ST	"	"	4.8	4.75	0915	0849	1414	6758.9	dining room
			Avg:	4.78					
20 36-ST			4.8	4.9	0959	0945	1366	6625.1	living room
			Avg:	4.85					
21 36-ST-FB			—	—	—		—	—	"
			Avg:						
22 31-ST			4.8	4.9	1109	1038	1409	6833.7	living room
			Avg:	4.85					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Fedex
Custody Seal Intact?
Y N None Temp ~~18.5~~ 13.5 °C

5DR

Relinquished by:	**Date:** 3/31/16	**Time:** 1757	**Received by:**	**Date:** 3/31/16	**Time:** 1752
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/1/16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604002

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3/30/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Robert Vasquez/EZ/SH

Rotameter: Key Instruments **Serial # :** 001154 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
05 34-ST	1	1	4.8	broken ~~2.1~~	1201	1135	1414	6787.2	living room
			Avg:	4.8					* Broken tube; assumed post cal. flow rate was 4.8 lpm
06 34-ST-D	1	1	4.8	5.1	1201	1135	1414	~~6787.2~~ 6711.8 Low 3/31/16	living room
			Avg:	4.95					
07 47-ST	1	1	4.8	4.7	1316	1249	1413	6711.8	dining room
			Avg:	4.75					
08 69-ST	1	1	4.8	4.8	1420	1349	1409	6763.2	livingroom
			Avg:	4.8					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Fedex
Custody Seal Intact? Y N None Temp 13.5 °C
SDR

Relinquished by:	**Date:** 3/31/16	**Time:** 1757	**Received by:**		**Date:** 3/31/16	**Time:** 1752
Relinquished by:	**Date:**	**Time:**	**Received by:**	EATL	**Date:** 4/1/16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**		**Date:**	**Time:**

1604002

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist:	
	Rotameter: Key Instruments Serial # : 001154	Expiration Date: 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
093-ST	"	"	4.8	4.8	1507	1454	1427	6849.6	dining room
			Avg:	4.80					
119-ST	"	"	4.8	4.5	1602	1601	1429	6684.9	living room
			Avg:	4.65		NA			
145-ST	"	"	4.8	4.35	1729	1708	1419	6499.0	living room
			Avg:	4.58					
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

FedEx
Custody Seal Intact?
Y N None Temp 13.5
SDR

Relinquished by: [signature]	Date: 3/31/16	Time: 1757	Received by: QBC	Date: 3/31/16	Time: 1750
Relinquished by:	Date:	Time:	Received by: [signature] EATC	Date: 4/1/16	Time: 1020
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

1604002

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** HAYANESS DEKEYAN, KURT SORBUS, IVAN MYERS	
	Rotameter: SKC-RATE **Serial # :** 000344	**Expiration Date:** 05/04/2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
33-ST			4.8	4.8	9:09	9:14	1495	9826	BATCH ID PIG1023 LV CERT DATE 3/24/16 Dirty Tube
			Avg:	4.8					
33-ST-D			4.8	4.8	9:11	9:24	1453	9880*	BATCH ID PIG1023 LV CERT DATE 3/24/16 Dirty Tube
			Avg:	4.8					
38-ST			4.8	4.8	10:14	10:09	1435	6888	PIG1013 / 3/31/16 X160716 / 3/22/16 Dirty Tube
			Avg:	4.8					
37-ST			4.8	4.8	1105	1050	1385	6648	PIG1013 / 3/1/16 X160316 3/22/16 Dirty Tube
			Avg:	4.8					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag * THE INITIAL READING MAY HAVE BEEN INFLUENCED BY ATM. (COLD, DAMP) CONDITIONS THE TEMPERATURE AT THE TIME OF COLLECTION WAS 59F PER ACCU WEATHER FOR PORTER RANCH. THE ROTAMETER ITSELF WAS STORED IN THE TRUNK OVERNIGHT WHERE TEMPS FELL BELOW THE READING

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Relinquished by:	**Date:** 3/31/16	**Time:** 1800	**Received by:**	**Date:** 3/31/16	**Time:** 1700
Relinquished by: Federal Express	**Date:**	**Time:**	**Received by:**	**Date:** 4/1/16	**Time:** 1020
Relinquished by: Custody Intact? (None) Temp 13.5	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

SDR

160402

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 03/30/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Bryan Dekeyo / Kurt Fehrs / Jim Myers

Rotameter: SHO-RATE **Serial # :** 000344 **Expiration Date:** 05-04-2016

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
16 J7-ST-(X)	↓	↓	4.8	4.8	1120	1100	1420	6816	P161023 2L / 3/24/16 X160312 / 3/24/16 EXPOSURE
			Avg: 4.8						
7 9H-ST	↓	↓	4.8	4.8	1156	2200	604	2899.2	P161023 COC# DATE 3/24/16 LIVING ROOM
			Avg: 4.8						
3 10-ST	↓	↓	4.8	4.8	1341	1355	1414	6787.2	P161023 COC# DATE 3/24/16 LIVING ROOM
			Avg: 4.8						
19 9S-ST-FB	↓	↓			1417	1417	0000	0	FIELD BLANK P161023 3/29/16 COC# DATE
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag * NOTE: OCCUPANT TURNED OFF ST AT 2200 (10:00PM) BECAUSE OF HOT CONDITIONS. OCCUPANT IS ALSO ELDERLY (≈70's). LASTLY OCCUPANT TURNED OFF AC 5AM ON TIME IS UNKNOWN

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Relinquished by:	**Date:** 3/30/16	**Time:** 1600	**Received by:**	**Date:** 3/31/16	**Time:** 1800
Relinquished by:	**Date:** FedEx	**Time:** Custody Seal Intact?	**Received by:**	**Date:** 4/1/16	**Time:** 1020
Relinquished by:	**Date:** Y N None	**Time:** Temp 12.5	**Received by:**	**Date:**	**Time:**

5DR

1604002

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 03/30/2016
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** HOVANNES DEKEYAN, KURT SUEBERT, IVAN MYERS	
	Rotameter: SHO-RATE **Serial # :** 000344	**Expiration Date:** 05-09-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A	~~4.8~~						
			Avg:						
20 48-ST			4.8	4.8	1442	1421	1419	6811.2	BATCH ID P161013 CERT DATE 3/21/16
			Avg:						
21 78-ST			4.8	4.8	1536	1532	1441	6916.8	BATCH ID P161013 X16316 LIVING ROOM
			Avg: 4.8						
22 57-ST			4.8	4.8	1616	1620	1444	6931.2	BATCH ID P161023 CERT DATE 3/24/2016
			Avg:						
			Avg:						

Fedex
Custody Seal Intact?
Y N None Temp 13.5
SDR

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Relinquished by:	**Date:** 3/18/16	**Time:** 1800	**Received by:** Meredith	**Date:** 3/31/16	**Time:** 18:00
Relinquished by:	**Date:**	**Time:**	**Received by:** Lin Ling EATL	**Date:** 4/1/16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604002

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4/7/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604018

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/2/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604018

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/02/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/07/2016		

FRACTION #	NAME	TEST
01A	19-ST	Modified TO-13A
02A	40-ST	Modified TO-13A
03A	52-ST	Modified TO-13A
04A	15-ST	Modified TO-13A
05A	2-ST	Modified TO-13A
06A	61-ST	Modified TO-13A
07A	61-ST-D	Modified TO-13A
08A	63-ST	Modified TO-13A
09A	44-ST	Modified TO-13A
10A	ST-FB-1B	Modified TO-13A
11A	Lab Blank	Modified TO-13A
12A	CCV	Modified TO-13A
12B	CCV	Modified TO-13A
13A	LCS	Modified TO-13A
13AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/07/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604018

Ten PUF/XAD Cartridge-Low Volume samples were received on April 02, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/25/16.

Sampling volumes were supplied by the client. A sample volume of 6848 L was used to report sample ST-FB-1B and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Dilution was performed on sample 2-ST due to the presence of high level target species.

Recoveries of all surrogates in sample 2-ST were not reported due to a dilution performed to bring target compounds within the linear range of calibration.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604018-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	1.0	0.15	1.5	0.22
Naphthalene	1.0	0.15	1.5	0.22
Diethylphthalate	5.0	0.73	0.67 J	0.099 J
di-n-Butylphthalate	5.0	0.73	0.75 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	24 NJ
Nonane	111-84-2	95%	15 NJ
Nonane, 3-methyl-	5911-04-6	94%	12 NJ
Benzene, (1-methylethyl)-	98-82-8	59%	22 NJ
Benzene, 1,2,3-trimethyl-	526-73-8	97%	15 NJ
Decane	124-18-5	94%	29 NJ
Benzene, 1-methyl-3-propyl-	1074-43-7	93%	14 NJ
Undecane	1120-21-4	94%	12 NJ
Adamantane, 1,3-dimethyl-	702-79-4	62%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ

[redacted]

Lab ID#: 1604018-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	8.8	1.3
1,4-Dichlorobenzene	1.0	0.15	1.3	0.20
Naphthalene	1.0	0.15	1.6	0.23
Dimethylphthalate	5.0	0.74	1.6 J	0.24 J
Diethylphthalate	5.0	0.74	2.2 J	0.32 J
Phenanthrene	1.0	0.15	0.099 J	0.015 J
di-n-Butylphthalate	5.0	0.74	2.7 J	0.40 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	26 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604018-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	33 NJ
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	91%	17 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	31 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	230 NJ
4-Ketopimelic	502-50-1	45%	44 NJ
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	56%	51 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	18 NJ
Tri(1,2-propyleneglycol), monomethyl eth	1000262-26-6	64%	17 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	25 NJ

[redacted]

Lab ID#: 1604018-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	3.8 J	0.56 J
1,4-Dichlorobenzene	1.0	0.15	0.87 J	0.13 J
Naphthalene	1.0	0.15	0.48 J	0.072 J
Diethylphthalate	5.0	0.75	0.94 J	0.14 J
di-n-Butylphthalate	5.0	0.75	2.0 J	0.29 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	80%	11 NJ
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Octanal	124-13-0	91%	9.5 NJ
Nonanal	124-19-6	91%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	2216-51-5	91%	16 NJ
Methyl salicylate	119-36-8	97%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	18 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604018-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	5.1	0.75
1,4-Dichlorobenzene	1.0	0.14	1.3	0.18
Naphthalene	1.0	0.14	0.73 J	0.11 J
di-n-Butylphthalate	5.0	0.73	0.73 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	16 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	16 NJ
Benzaldehyde	100-52-7	97%	18 NJ
Undecane, 2,2-dimethyl-	17312-64-0	78%	22 NJ
D-Limonene	5989-27-5	94%	34 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	72%	41 NJ
Hexane, 2,2,4-trimethyl-	16747-26-5	59%	44 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	64%	26 NJ
Decane, 3,7-dimethyl-	17312-54-8	72%	26 NJ
Nonanal	124-19-6	83%	16 NJ

[redacted]

Lab ID#: 1604018-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	50	7.3	6600	960

Client Sample ID: 61-ST

Lab ID#: 1604018-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	6.2	0.91
Naphthalene	1.0	0.15	0.86 J	0.12 J
2-Methylnaphthalene	1.0	0.15	0.51 J	0.075 J
Diethylphthalate	5.0	0.73	2.5 J	0.36 J
di-n-Butylphthalate	5.0	0.73	1.1 J	0.16 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604018-06A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	33 NJ
p-Xylene	106-42-3	97%	9.8 NJ
1R-.alpha.-Pinene	7785-70-8	96%	12 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	14 NJ
Nonanal	124-19-6	91%	10 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	34 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Tridecane	629-50-5	92%	9.5 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	59%	18 NJ

[redacted]

Lab ID#: 1604018-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	4.6 J	0.67 J
1,4-Dichlorobenzene	1.0	0.15	0.78 J	0.11 J
Naphthalene	1.0	0.15	0.57 J	0.083 J
Diethylphthalate	5.0	0.73	1.9 J	0.28 J
di-n-Butylphthalate	5.0	0.73	0.92 J	0.13 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
1R-.alpha.-Pinene	7785-70-8	96%	7.7 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	10 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	9.2 NJ
Nonanal	124-19-6	91%	7.0 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	11 NJ
Tridecane	629-50-5	92%	6.9 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604018-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Benzoic acid, 2-ethylhexyl ester	5444-75-7	50%	13 NJ

[redacted]

Lab ID#: 1604018-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.8	0.85
1,4-Dichlorobenzene	1.0	0.15	0.94 J	0.14 J
Naphthalene	1.0	0.15	1.6	0.24
Diethylphthalate	5.0	0.74	1.9 J	0.28 J
di-n-Butylphthalate	5.0	0.74	1.3 J	0.19 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Acetic acid, butyl ester	123-86-4	38%	24 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
1R-.alpha.-Pinene	7785-70-8	96%	15 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	130 NJ
Nonanal	124-19-6	47%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	53 NJ
Decanal	112-31-2	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	12 NJ
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(	96-08-2	32%	11 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	14 NJ

[redacted]

Lab ID#: 1604018-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	5.3	0.80
1,4-Dichlorobenzene	1.0	0.15	8.8	1.3
Naphthalene	1.0	0.15	0.95 J	0.14 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604018-09A

Diethylphthalate	5.0	0.76	0.76 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	7.5 NJ
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	26 NJ
1-Methoxy-2-propyl acetate	108-65-6	59%	5.6 NJ
1R-.alpha.-Pinene	7785-70-8	96%	6.3 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	7.0 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	76 NJ
Decanal	112-31-2	91%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	7.6 NJ

[redacted]

Lab ID#: 1604018-10A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	11 NJ

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[redacted]

Lab ID#: 1604018-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040414**	**Date of Collection:**	**3/31/16 7:38:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 10:19 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	1.5	0.22
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.5	0.22
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	0.67 J	0.099 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604018-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040414**	**Date of Collection:**	**3/31/16 7:38:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 10:19 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	0.75 J	0.11 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	24 NJ
Nonane	111-84-2	95%	15 NJ
Nonane, 3-methyl-	5911-04-6	94%	12 NJ
Benzene, (1-methylethyl)-	98-82-8	59%	22 NJ
Benzene, 1,2,3-trimethyl-	526-73-8	97%	15 NJ
Decane	124-18-5	94%	29 NJ
Benzene, 1-methyl-3-propyl-	1074-43-7	93%	14 NJ
Undecane	1120-21-4	94%	12 NJ
Adamantane, 1,3-dimethyl-	702-79-4	62%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ

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Lab ID#: 1604018-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040414**	**Date of Collection: 3/31/16 7:38:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 10:19 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6820

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	48	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	81	10-123
Fluorene-d10	80	60-120
Pyrene-d10	97	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604018-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040415**	**Date of Collection:**	**3/31/16 8:39:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 10:49 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	8.8	1.3
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	1.3	0.20
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.6	0.23
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	1.6 J	0.24 J
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	2.2 J	0.32 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040415**	**Date of Collection:**	**3/31/16 8:39:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 10:49 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.099 J	0.015 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	2.7 J	0.40 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	26 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	33 NJ
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	91%	17 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	31 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	230 NJ
4-Ketopimelic	502-50-1	45%	44 NJ
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	56%	51 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	18 NJ
Tri(1,2-propyleneglycol), monomethyl eth	1000262-26-6	64%	17 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	25 NJ

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Lab ID#: 1604018-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040415**	**Date of Collection: 3/31/16 8:39:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 10:49 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6800

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	88	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	92	10-123
Fluorene-d10	82	60-120
Pyrene-d10	95	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	91	50-150

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Lab ID#: 1604018-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040416**	**Date of Collection: 3/31/16 8:56:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 11:19 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	3.8 J	0.56 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.87 J	0.13 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.48 J	0.072 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	0.94 J	0.14 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040416**	**Date of Collection:**	**3/31/16 8:56:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 11:19 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	2.0 J	0.29 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	80%	11 NJ
Tetrachloroethylene	127-18-4	97%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Octanal	124-13-0	91%	9.5 NJ
Nonanal	124-19-6	91%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	2216-51-5	91%	16 NJ
Methyl salicylate	119-36-8	97%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	18 NJ

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Lab ID#: 1604018-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040416**	**Date of Collection: 3/31/16 8:56:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 11:19 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6670

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	83	10-123
Fluorene-d10	78	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604018-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040417**	**Date of Collection:**	**3/31/16 10:20:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 11:48 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	5.1	0.75
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	1.3	0.18
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.73 J	0.11 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604018-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040417**	**Date of Collection:**	**3/31/16 10:20:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 11:48 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	0.73 J	0.11 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	16 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	16 NJ
Benzaldehyde	100-52-7	97%	18 NJ
Undecane, 2,2-dimethyl-	17312-64-0	78%	22 NJ
D-Limonene	5989-27-5	94%	34 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	72%	41 NJ
Hexane, 2,2,4-trimethyl-	16747-26-5	59%	44 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	64%	26 NJ
Decane, 3,7-dimethyl-	17312-54-8	72%	26 NJ
Nonanal	124-19-6	83%	16 NJ

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Lab ID#: 1604018-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040417**	**Date of Collection: 3/31/16 10:20:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 11:48 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6870

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	51	21-110
Phenol-d5	74	10-110
Nitrobenzene-d5	72	35-114
2,4,6-Tribromophenol	81	10-123
Fluorene-d10	76	60-120
Pyrene-d10	93	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604018-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040516**	**Date of Collection:**	**3/31/16 10:46:00 AM**
Dil. Factor:	**50.0**	**Date of Analysis:**	**4/5/16 11:39 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	250	36	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	50	7.3	Not Detected	Not Detected
2-Chlorophenol	250	36	Not Detected	Not Detected
1,3-Dichlorobenzene	50	7.3	Not Detected	Not Detected
1,4-Dichlorobenzene	50	7.3	6600	960
1,2-Dichlorobenzene	50	7.3	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	250	36	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	50	7.3	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	50	7.3	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	250	36	Not Detected	Not Detected
Hexachloroethane	50	7.3	Not Detected	Not Detected
Nitrobenzene	50	7.3	Not Detected	Not Detected
Isophorone	50	7.3	Not Detected	Not Detected
2-Nitrophenol	250	36	Not Detected	Not Detected
2,4-Dimethylphenol	250	36	Not Detected	Not Detected
Benzoic Acid	1500	220	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	50	7.3	Not Detected	Not Detected
2,4-Dichlorophenol	250	36	Not Detected	Not Detected
1,2,4-Trichlorobenzene	50	7.3	Not Detected	Not Detected
Naphthalene	50	7.3	Not Detected	Not Detected
4-Chloroaniline	500	73	Not Detected	Not Detected
Hexachlorobutadiene	50	7.3	Not Detected	Not Detected
4-Chloro-3-methylphenol	250	36	Not Detected	Not Detected
2-Methylnaphthalene	50	7.3	Not Detected	Not Detected
Hexachlorocyclopentadiene	1000	140	Not Detected	Not Detected
2,4,6-Trichlorophenol	250	36	Not Detected	Not Detected
2,4,5-Trichlorophenol	500	73	Not Detected	Not Detected
2-Chloronaphthalene	50	7.3	Not Detected	Not Detected
2-Nitroaniline	500	73	Not Detected	Not Detected
Dimethylphthalate	250	36	Not Detected	Not Detected
Acenaphthylene	50	7.3	Not Detected	Not Detected
2,6-Dinitrotoluene	250	36	Not Detected	Not Detected
3-Nitroaniline	500	73	Not Detected	Not Detected
Acenaphthene	50	7.3	Not Detected	Not Detected
2,4-Dinitrophenol	2000	290	Not Detected	Not Detected
4-Nitrophenol	2000	290	Not Detected	Not Detected
2,4-Dinitrotoluene	250	36	Not Detected	Not Detected
Dibenzofuran	50	7.3	Not Detected	Not Detected
Diethylphthalate	250	36	Not Detected	Not Detected
Fluorene	50	7.3	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	50	7.3	Not Detected	Not Detected

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Lab ID#: 1604018-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040516**	**Date of Collection: 3/31/16 10:46:00 AM**	
Dil. Factor:	**50.0**	**Date of Analysis: 4/5/16 11:39 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	500	73	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	500	73	Not Detected	Not Detected
N-Nitrosodiphenylamine	500	73	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	50	7.3	Not Detected	Not Detected
Hexachlorobenzene	50	7.3	Not Detected	Not Detected
Pentachlorophenol	4000	580	Not Detected	Not Detected
Phenanthrene	50	7.3	Not Detected	Not Detected
Anthracene	50	7.3	Not Detected	Not Detected
di-n-Butylphthalate	250	36	Not Detected	Not Detected
Fluoranthene	50	7.3	Not Detected	Not Detected
Pyrene	50	7.3	Not Detected	Not Detected
Butylbenzylphthalate	250	36	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1000	140	Not Detected	Not Detected
Chrysene	50	7.3	Not Detected	Not Detected
Benzo(a)anthracene	50	7.3	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	250	36	Not Detected	Not Detected
Di-n-Octylphthalate	250	36	Not Detected	Not Detected
Benzo(b)fluoranthene	50	7.3	Not Detected	Not Detected
Benzo(k)fluoranthene	50	7.3	Not Detected	Not Detected
Benzo(a)pyrene	50	7.3	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	50	7.3	Not Detected	Not Detected
Dibenz(a,h)anthracene	50	7.3	Not Detected	Not Detected
Benzo(g,h,i)perylene	50	7.3	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ug
None Identified			

Air Sample Volume(L): 6880

Q = Exceeds Quality Control limits.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	0 U Q	21-110
Phenol-d5	0 U Q	10-110
Nitrobenzene-d5	0 U Q	35-114
2,4,6-Tribromophenol	0 U Q	10-123
Fluorene-d10	0 U Q	60-120
Pyrene-d10	0 U Q	60-120

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Lab ID#: 1604018-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040516**	**Date of Collection: 3/31/16 10:46:00 AM**
Dil. Factor:	**50.0**	**Date of Analysis: 4/5/16 11:39 PM**
		Date of Extraction: 4/4/16

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	0 U Q	50-150
Fluoranthene-d10	0 U Q	50-150

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Lab ID#: 1604018-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040510**	**Date of Collection:**	**3/31/16 2:03:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 08:42 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	6.2	0.91
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.86 J	0.12 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.51 J	0.075 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	2.5 J	0.36 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040510**	**Date of Collection:**	**3/31/16 2:03:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 08:42 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.1 J	0.16 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	33 NJ
p-Xylene	106-42-3	97%	9.8 NJ
1R-.alpha.-Pinene	7785-70-8	96%	12 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	14 NJ
Nonanal	124-19-6	91%	10 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	34 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Tridecane	629-50-5	92%	9.5 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	59%	18 NJ

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Lab ID#: 1604018-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040510**	**Date of Collection: 3/31/16 2:03:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 08:42 PM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	78	60-120
Pyrene-d10	85	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	103	50-150

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Lab ID#: 1604018-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040420**	**Date of Collection: 3/31/16 2:03:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 01:17 AM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	4.6 J	0.67 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.78 J	0.11 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.57 J	0.083 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	1.9 J	0.28 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040420**	**Date of Collection:**	**3/31/16 2:03:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 01:17 AM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	0.92 J	0.13 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
1R-.alpha.-Pinene	7785-70-8	96%	7.7 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	10 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	9.2 NJ
Nonanal	124-19-6	91%	7.0 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	11 NJ
Tridecane	629-50-5	92%	6.9 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	50%	13 NJ

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Lab ID#: 1604018-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040420**	**Date of Collection: 3/31/16 2:03:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 01:17 AM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Q = Exceeds Quality Control limits.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	45 Q	21-110
Phenol-d5	58 Q	10-110
Nitrobenzene-d5	57 Q	35-114
2,4,6-Tribromophenol	66	10-123
Fluorene-d10	61	60-120
Pyrene-d10	64	60-120
Benzo(a)pyrene-d12	68	50-150
Fluoranthene-d10	84	50-150

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Lab ID#: 1604018-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040421**	**Date of Collection: 3/31/16 2:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 01:47 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.8	0.85
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.94 J	0.14 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.6	0.24
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.9 J	0.28 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040421**	**Date of Collection: 3/31/16 2:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 01:47 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.3 J	0.19 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Acetic acid, butyl ester	123-86-4	38%	24 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
1R-.alpha.-Pinene	7785-70-8	96%	15 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	130 NJ
Nonanal	124-19-6	47%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	53 NJ
Decanal	112-31-2	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	12 NJ
7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(	96-08-2	32%	11 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	14 NJ

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Lab ID#: 1604018-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040421**	**Date of Collection: 3/31/16 2:49:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 01:47 AM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6760

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	82	10-123
Fluorene-d10	76	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604018-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040422**	**Date of Collection: 3/31/16 5:09:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 02:16 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	5.3	0.80
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	8.8	1.3
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.95 J	0.14 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	0.76 J	0.11 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040422**	**Date of Collection: 3/31/16 5:09:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 02:16 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	7.5 NJ
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	26 NJ
1-Methoxy-2-propyl acetate	108-65-6	59%	5.6 NJ
1R-.alpha.-Pinene	7785-70-8	96%	6.3 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	7.0 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	76 NJ
Decanal	112-31-2	91%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	7.6 NJ

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Lab ID#: 1604018-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040422**	**Date of Collection: 3/31/16 5:09:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 02:16 AM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6580

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	74	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1604018-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040412**	**Date of Collection: 3/31/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 09:20 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040412**	**Date of Collection: 3/31/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 09:20 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	11 NJ

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	54	21-110
Phenol-d5	67	10-110
Nitrobenzene-d5	67	35-114
2,4,6-Tribromophenol	71	10-123

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Lab ID#: 1604018-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040412**	**Date of Collection:**	**3/31/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/4/16 09:20 PM**
		Date of Extraction:	**4/4/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	71	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	93	50-150

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Lab ID#: 1604018-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 08:50 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.21 J	0.030 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604018-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 08:50 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	32 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	13 NJ

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	76	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	66	10-123

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[redacted]

Lab ID#: 1604018-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 08:50 PM**	
		Date of Extraction: 4/4/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	77	60-120
Pyrene-d10	95	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604018-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	101
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
1,2-Dichlorobenzene	100
2-Methylphenol (o-Cresol)	105
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	112
4-Methylphenol/3-Methylphenol	106
Hexachloroethane	102
Nitrobenzene	103
Isophorone	108
2-Nitrophenol	97
2,4-Dimethylphenol	101
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	102
2,4-Dichlorophenol	104
1,2,4-Trichlorobenzene	97
Naphthalene	98
4-Chloroaniline	101
Hexachlorobutadiene	96
4-Chloro-3-methylphenol	114
2-Methylnaphthalene	103
Hexachlorocyclopentadiene	98
2,4,6-Trichlorophenol	102
2,4,5-Trichlorophenol	108
2-Chloronaphthalene	101
2-Nitroaniline	109
Dimethylphthalate	105
Acenaphthylene	104
2,6-Dinitrotoluene	104
3-Nitroaniline	104
Acenaphthene	103
2,4-Dinitrophenol	75
4-Nitrophenol	108
2,4-Dinitrotoluene	116
Dibenzofuran	104
Diethylphthalate	106
Fluorene	106
4-Chlorophenyl-phenyl Ether	103

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[redacted]

Lab ID#: 1604018-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	106
4,6-Dinitro-2-methylphenol	104
N-Nitrosodiphenylamine	100
4-Bromophenyl-phenyl Ether	101
Hexachlorobenzene	100
Pentachlorophenol	92
Phenanthrene	101
Anthracene	105
di-n-Butylphthalate	107
Fluoranthene	106
Pyrene	111
Butylbenzylphthalate	112
3,3'-Dichlorobenzidine	91
Chrysene	101
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	108
Di-n-Octylphthalate	112
Benzo(b)fluoranthene	105
Benzo(k)fluoranthene	109
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	100
Dibenz(a,h)anthracene	101
Benzo(g,h,i)perylene	101

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	106	21-110
Phenol-d5	102	10-110
Nitrobenzene-d5	104	35-114
2,4,6-Tribromophenol	111	10-123
Fluorene-d10	106	60-120
Pyrene-d10	110	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	106	50-150

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[redacted]

Lab ID#: 1604018-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040506**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 06:44 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	110
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
1,2-Dichlorobenzene	102
2-Methylphenol (o-Cresol)	106
bis(2-Chloroisopropyl) Ether	107
N-Nitroso-di-n-propylamine	114
4-Methylphenol/3-Methylphenol	108
Hexachloroethane	103
Nitrobenzene	104
Isophorone	112
2-Nitrophenol	100
2,4-Dimethylphenol	104
Benzoic Acid	95
bis(2-Chloroethoxy) Methane	103
2,4-Dichlorophenol	108
1,2,4-Trichlorobenzene	98
Naphthalene	101
4-Chloroaniline	104
Hexachlorobutadiene	96
4-Chloro-3-methylphenol	116
2-Methylnaphthalene	105
Hexachlorocyclopentadiene	98
2,4,6-Trichlorophenol	100
2,4,5-Trichlorophenol	100
2-Chloronaphthalene	99
2-Nitroaniline	112
Dimethylphthalate	103
Acenaphthylene	103
2,6-Dinitrotoluene	103
3-Nitroaniline	108
Acenaphthene	102
2,4-Dinitrophenol	79
4-Nitrophenol	112
2,4-Dinitrotoluene	118
Dibenzofuran	102
Diethylphthalate	106
Fluorene	105
4-Chlorophenyl-phenyl Ether	102

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[redacted]

Lab ID#: 1604018-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040506**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 06:44 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	117
4,6-Dinitro-2-methylphenol	101
N-Nitrosodiphenylamine	95
4-Bromophenyl-phenyl Ether	97
Hexachlorobenzene	95
Pentachlorophenol	76
Phenanthrene	102
Anthracene	104
di-n-Butylphthalate	105
Fluoranthene	109
Pyrene	102
Butylbenzylphthalate	109
3,3'-Dichlorobenzidine	89
Chrysene	99
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	111
Di-n-Octylphthalate	130
Benzo(b)fluoranthene	110
Benzo(k)fluoranthene	110
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	95
Dibenz(a,h)anthracene	96
Benzo(g,h,i)perylene	93

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	102	21-110
Phenol-d5	107	10-110
Nitrobenzene-d5	109	35-114
2,4,6-Tribromophenol	112	10-123
Fluorene-d10	103	60-120
Pyrene-d10	101	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	110	50-150

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[redacted]

Lab ID#: 1604018-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 07:51 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
Phenol	82	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	79	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	71	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	99	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	82	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	102	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	93	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	79	10-80
2,4-Dinitrotoluene	107 Q	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604018-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 07:51 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	11	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	112	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	56	21-110
Phenol-d5	72	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	81	10-123
Fluorene-d10	82	60-120
Pyrene-d10	98	60-120
Benzo(a)pyrene-d12	95	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604018-13AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 07:43 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	66	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	94	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	76	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	98	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	88	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	74	10-80
2,4-Dinitrotoluene	95	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604018-13AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 07:43 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	25	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	109	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	72	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	78	60-120
Pyrene-d10	98	60-120
Benzo(a)pyrene-d12	93	50-150
Fluoranthene-d10	104	50-150

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3-31-16
	Project Location: Aliso Canyon	Wallace Stevens, Joel Kerman, INGRID ZUBIETA	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez	
	Rotameter: Dick Mumms Co. **Serial # :** 001536	**Expiration Date:** 3-21-2017	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
19-ST	↓	↓	4.8	4.8	0816	0758	1422	6825.6	Living Room (1st Floor)
			Avg:	4.8					
40-ST			4.8	4.8	0903	0839	1916	6796.8	East Dining Room (1st Floor)
			Avg:	4.8					
52-ST			4.8	4.7	0932	0856	1404	6669	East Dining Room (1st Floor)
			Avg:	4.75					
15-ST			4.8	4.9	1044	1020	1916	6867.6	East Dining Room (1st Floor)
			Avg:	4.85					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 10.8°C
FedEX

Relinquished by: Wallace Stevens	**Date:** 4-1-16	**Time:** 1750	**Received by:**	**Date:** 4/1/16	**Time:** 1754
Relinquished by:	**Date:**	**Time:**	**Received by:** MEATL	**Date:** 4-2-16	**Time:** 0925
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

160418

WBS 4-7-16

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3-31-16

Project Location: Aliso Canyon — Wallace Stevens, Joel Berman, Ingrid Zubiga

Client Reference: Los Angeles County — **Industrial Hygienist:** Robert Vasquez

Rotameter: Dick Mavins Co. **Serial # :** 001336 **Expiration Date:** 3-21-2017

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
2-ST			4.8	~~4.7~~ 5.0	1121	1046	1405	6884.5	1st floor west living room
			Avg: 4.9 WBS 4-7-16						
G1-ST			4.8	4.9	1431	1403	1412	6848.2	1st floor living room
			Avg: 4.85						
G1-ST-D			4.8	4.9	1431	1403	1412	6848.2	1st floor living room
			Avg: 4.85						
G3-ST			4.8	4.9	1504	1429	1395	6765.8	1st floor dining room
			Avg: 4.85						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 10.8°C
FedEx

Relinquished by: Wallace Stevens	**Date:** 4-1-16	**Time:** 1750	**Received by:** [signature]	**Date:** 4/1/16	**Time:** 1754
Relinquished by:	**Date:**	**Time:**	**Received by:** [signature]	**Date:** 4-2-16	**Time:** 0925
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

160408

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3-31-16
	Project Location: Aliso Canyon	Wallace Stevens, Joel Berman, INGRID ZUBIGA	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez	
	Rotameter: Dick Flowmeter Co. **Serial # :** 001336	**Expiration Date:** 3-21-2017	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
44-ST	↓	↓	9.5 9.6		1149	1709	1400	0580	2nd Floor living room
			Avg: 9.7						
ST-FB-1B	↓	↓							Batch ID - P16120LW 4-1-16
			Avg:						Collected @ House # 2 - Air fresheners (neatly) unplugged
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 10.8°C
FedEX

Relinquished by: Wallace Stevens	**Date:** 4-1-16	**Time:** 1750	**Received by:**		**Date:** 4/1/16	**Time:** 1754
Relinquished by:	**Date:**	**Time:**	**Received by:**		**Date:** 4/2/16	**Time:** 0925
Relinquished by:	**Date:**	**Time:**	**Received by:**		**Date:**	**Time:**

1604018

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4/7/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604019

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/2/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604019

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/02/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/07/2016		

FRACTION #	NAME	TEST
01A	32-ST	Modified TO-13A
02A	23-ST	Modified TO-13A
03A	14-ST	Modified TO-13A
04A	14-ST-EXT	Modified TO-13A
05A	85-ST	Modified TO-13A
06A	116-ST	Modified TO-13A
07A	114-ST	Modified TO-13A
08A	14-ST-B	Modified TO-13A
09A	Lab Blank	Modified TO-13A
10A	CCV	Modified TO-13A
10B	CCV	Modified TO-13A
11A	LCS	Modified TO-13A
11AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/07/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604019

Eight PUF/XAD Cartridge-Low Volume samples were received on April 02, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/23/16 and 3/25/16.

Sampling volumes were supplied by the client. A sample volume of 6924 L was used to report sample 14-ST-B and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604019-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.4 J	0.65 J
1,4-Dichlorobenzene	1.0	0.15	1.4	0.21
Naphthalene	1.0	0.15	0.83 J	0.12 J
Diethylphthalate	5.0	0.74	6.4	0.94
di-n-Butylphthalate	5.0	0.74	4.9 J	0.73 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	62%	12 NJ
Acetic acid, butyl ester	123-86-4	43%	36 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	36 NJ
1R-.alpha.-Pinene	7785-70-8	96%	9.0 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	19 NJ
Octanal	124-13-0	86%	9.9 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	62 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	310 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	16 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	13 NJ

[redacted]

Lab ID#: 1604019-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	7.0	1.0
1,4-Dichlorobenzene	1.0	0.14	77	11
Isophorone	1.0	0.14	1.5	0.22
Naphthalene	1.0	0.14	2.6	0.38
2-Methylnaphthalene	1.0	0.14	0.52 J	0.075 J
Diethylphthalate	5.0	0.72	1.6 J	0.23 J
di-n-Butylphthalate	5.0	0.72	0.91 J	0.13 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604019-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-butoxy-	111-76-2	91%	25 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	43 NJ
Eucalyptol	470-82-6	93%	13 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	24 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	91%	16 NJ
Methyl salicylate	119-36-8	96%	22 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	16 NJ
cis-3-Hexenyl-.alpha.-methylbutyrate	53398-85-9	59%	14 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	18 NJ

[redacted]

Lab ID#: 1604019-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	1.2	0.18
2-Methylnaphthalene	1.0	0.15	0.48 J	0.070 J
Acenaphthene	1.0	0.15	0.35 J	0.051 J
Diethylphthalate	5.0	0.74	1.2 J	0.18 J
Phenanthrene	1.0	0.15	0.15 J	0.022 J
di-n-Butylphthalate	5.0	0.74	1.0 J	0.15 J
Pyrene	1.0	0.15	0.30 J	0.044 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	29 NJ
1-Hexanol, 2-ethyl-	104-76-7	50%	7.6 NJ
D-Limonene	5989-27-5	93%	20 NJ
Hexane, 3,3,4-trimethyl-	16747-31-2	59%	8.0 NJ
Nonanal	124-19-6	90%	17 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	160 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604019-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Decanal	112-31-2	91%	7.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	7.8 NJ

[redacted]

Lab ID#: 1604019-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.20 J	0.029 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	4.8 NJ

[redacted]

Lab ID#: 1604019-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.7 J	0.68 J
1,4-Dichlorobenzene	1.0	0.14	8.3	1.2
Naphthalene	1.0	0.14	1.1	0.15
2-Methylnaphthalene	1.0	0.14	0.57 J	0.083 J
Diethylphthalate	5.0	0.72	0.75 J	0.11 J
Phenanthrene	1.0	0.14	0.17 J	0.025 J
di-n-Butylphthalate	5.0	0.72	1.2 J	0.17 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604019-05A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
Ethanol, 2-butoxy-	111-76-2	91%	26 NJ
1R-.alpha.-Pinene	7785-70-8	96%	8.4 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	83%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	220 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	190 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	2216-51-5	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	12 NJ

[redacted]

Lab ID#: 1604019-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.5 J	0.51 J
Naphthalene	1.0	0.14	1.0	0.15
Diethylphthalate	5.0	0.73	1.1 J	0.16 J
di-n-Butylphthalate	5.0	0.73	1.2 J	0.18 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	19 NJ
Octane, 2,5,6-trimethyl-	62016-14-2	59%	28 NJ
Undecane, 2,2-dimethyl-	17312-64-0	78%	71 NJ
Pentane, 2,2,4,4-tetramethyl-	1070-87-7	27%	67 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	72%	92 NJ
2,2,4,4-Tetramethyloctane	62183-79-3	64%	21 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	92 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	64%	76 NJ
Undecane, 2,8-dimethyl-	17301-25-6	78%	79 NJ
Hexane, 2,4,4-trimethyl-	16747-30-1	72%	28 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604019-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.4	0.79
Naphthalene	1.0	0.15	0.45 J	0.066 J
Diethylphthalate	5.0	0.74	2.0 J	0.30 J
Phenanthrene	1.0	0.15	0.10 J	0.015 J
di-n-Butylphthalate	5.0	0.74	2.4 J	0.36 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	33 NJ
1R-.alpha.-Pinene	7785-70-8	96%	7.4 NJ
Octanal	124-13-0	86%	7.7 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	9.6 NJ
Nonanal	124-19-6	90%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	34 NJ
Decanal	112-31-2	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Butanoic acid, butyl ester	109-21-7	80%	7.1 NJ

[redacted]

Lab ID#: 1604019-08A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	31 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	13 NJ

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[redacted]

Lab ID#: 1604019-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040423**	**Date of Collection: 3/31/16 8:11:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 02:46 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.4 J	0.65 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	1.4	0.21
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.83 J	0.12 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	6.4	0.94
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604019-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040423**	**Date of Collection:**	**3/31/16 8:11:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 02:46 AM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	4.9 J	0.73 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	62%	12 NJ
Acetic acid, butyl ester	123-86-4	43%	36 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	36 NJ
1R-.alpha.-Pinene	7785-70-8	96%	9.0 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	19 NJ
Octanal	124-13-0	86%	9.9 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	62 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	310 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	16 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	13 NJ

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[redacted]

Lab ID#: 1604019-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040423**	**Date of Collection: 3/31/16 8:11:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 02:46 AM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6770

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	21-110
Phenol-d5	86	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	82	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	79	50-150
Fluoranthene-d10	100	50-150

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[redacted]

Lab ID#: 1604019-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040424**	**Date of Collection: 3/31/16 9:54:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 03:16 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	7.0	1.0
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	77	11
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	1.5	0.22
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	2.6	0.38
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.52 J	0.075 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	1.6 J	0.23 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604019-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040424**	**Date of Collection: 3/31/16 9:54:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 03:16 AM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	0.91 J	0.13 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-butoxy-	111-76-2	91%	25 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	43 NJ
Eucalyptol	470-82-6	93%	13 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	24 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	91%	16 NJ
Methyl salicylate	119-36-8	96%	22 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	16 NJ
cis-3-Hexenyl-.alpha.-methylbutyrate	53398-85-9	59%	14 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	18 NJ

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Lab ID#: 1604019-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040424**	**Date of Collection: 3/31/16 9:54:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 03:16 AM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	80	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	78	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1604019-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040511**	**Date of Collection: 3/31/16 11:19:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 09:12 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.2	0.18
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.48 J	0.070 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	0.35 J	0.051 J
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.2 J	0.18 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604019-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040511**	**Date of Collection:**	**3/31/16 11:19:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 09:12 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.15 J	0.022 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.0 J	0.15 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	0.30 J	0.044 J
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	29 NJ
1-Hexanol, 2-ethyl-	104-76-7	50%	7.6 NJ
D-Limonene	5989-27-5	93%	20 NJ
Hexane, 3,3,4-trimethyl-	16747-31-2	59%	8.0 NJ
Nonanal	124-19-6	90%	17 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	160 NJ
Decanal	112-31-2	91%	7.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	7.8 NJ

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Lab ID#: 1604019-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040511**	**Date of Collection: 3/31/16 11:19:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 09:12 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6800

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	88	10-123
Fluorene-d10	83	60-120
Pyrene-d10	87	60-120
Benzo(a)pyrene-d12	89	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604019-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040512**	**Date of Collection: 3/31/16 11:27:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 09:41 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.20 J	0.029 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604019-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040512**	**Date of Collection:**	**3/31/16 11:27:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 09:41 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	4.8 NJ

Air Sample Volume(L): 6690

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	53	21-110
Phenol-d5	66	10-110

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Lab ID#: 1604019-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040512**	**Date of Collection: 3/31/16 11:27:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 09:41 PM**
		Date of Extraction: 4/4/16

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	67	35-114
2,4,6-Tribromophenol	65	10-123
Fluorene-d10	64	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	68	50-150
Fluoranthene-d10	85	50-150

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Lab ID#: 1604019-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040513**	**Date of Collection:**	**3/31/16 3:18:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 10:11 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.7 J	0.68 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	8.3	1.2
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.1	0.15
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.57 J	0.083 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	0.75 J	0.11 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604019-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040513**	**Date of Collection: 3/31/16 3:18:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 10:11 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.17 J	0.025 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.2 J	0.17 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
Ethanol, 2-butoxy-	111-76-2	91%	26 NJ
1R-.alpha.-Pinene	7785-70-8	96%	8.4 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	83%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	220 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	190 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	2216-51-5	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	12 NJ

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Lab ID#: 1604019-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040513**	**Date of Collection: 3/31/16 3:18:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 10:11 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6910

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	75	21-110
Phenol-d5	85	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	87	10-123
Fluorene-d10	81	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	79	50-150
Fluoranthene-d10	94	50-150

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Lab ID#: 1604019-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040514**	**Date of Collection:**	**3/31/16 3:42:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/5/16 10:40 PM**
		Date of Extraction:	**4/4/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.5 J	0.51 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.0	0.15
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	1.1 J	0.16 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604019-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040514**	**Date of Collection: 3/31/16 3:42:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 10:40 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.2 J	0.18 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	19 NJ
Octane, 2,5,6-trimethyl-	62016-14-2	59%	28 NJ
Undecane, 2,2-dimethyl-	17312-64-0	78%	71 NJ
Pentane, 2,2,4,4-tetramethyl-	1070-87-7	27%	67 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	72%	92 NJ
2,2,4,4-Tetramethyloctane	62183-79-3	64%	21 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	92 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	64%	76 NJ
Undecane, 2,8-dimethyl-	17301-25-6	78%	79 NJ
Hexane, 2,4,4-trimethyl-	16747-30-1	72%	28 NJ

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Lab ID#: 1604019-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040514**	**Date of Collection: 3/31/16 3:42:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 10:40 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6870

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	73	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604019-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040515**	**Date of Collection: 3/31/16 5:17:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 11:10 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.4	0.79
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.45 J	0.066 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	2.0 J	0.30 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604019-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040515**	**Date of Collection: 3/31/16 5:17:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 11:10 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.10 J	0.015 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	2.4 J	0.36 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	33 NJ
1R-.alpha.-Pinene	7785-70-8	96%	7.4 NJ
Octanal	124-13-0	86%	7.7 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	9.6 NJ
Nonanal	124-19-6	90%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	34 NJ
Decanal	112-31-2	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Butanoic acid, butyl ester	109-21-7	80%	7.1 NJ

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Lab ID#: 1604019-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040515**	**Date of Collection: 3/31/16 5:17:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 11:10 PM**
		Date of Extraction: 4/4/16

Air Sample Volume(L): 6800

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	77	21-110
Phenol-d5	85	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	77	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604019-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040413**	**Date of Collection: 3/31/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 09:50 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604019-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040413**	**Date of Collection: 3/31/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 09:50 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	31 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	13 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	73	10-123

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Lab ID#: 1604019-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040413**	**Date of Collection: 3/31/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 09:50 PM**	
		Date of Extraction: 4/4/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	79	60-120
Pyrene-d10	98	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604019-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 08:50 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.21 J	0.030 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604019-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 08:50 PM**	
		Date of Extraction: 4/4/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	0.18 J	0.025 J
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	32 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	13 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	76	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	66	10-123

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[redacted]

Lab ID#: 1604019-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 08:50 PM**	
		Date of Extraction: 4/4/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	77	60-120
Pyrene-d10	95	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604019-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	101
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
1,2-Dichlorobenzene	100
2-Methylphenol (o-Cresol)	105
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	112
4-Methylphenol/3-Methylphenol	106
Hexachloroethane	102
Nitrobenzene	103
Isophorone	108
2-Nitrophenol	97
2,4-Dimethylphenol	101
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	102
2,4-Dichlorophenol	104
1,2,4-Trichlorobenzene	97
Naphthalene	98
4-Chloroaniline	101
Hexachlorobutadiene	96
4-Chloro-3-methylphenol	114
2-Methylnaphthalene	103
Hexachlorocyclopentadiene	98
2,4,6-Trichlorophenol	102
2,4,5-Trichlorophenol	108
2-Chloronaphthalene	101
2-Nitroaniline	109
Dimethylphthalate	105
Acenaphthylene	104
2,6-Dinitrotoluene	104
3-Nitroaniline	104
Acenaphthene	103
2,4-Dinitrophenol	75
4-Nitrophenol	108
2,4-Dinitrotoluene	116
Dibenzofuran	104
Diethylphthalate	106
Fluorene	106
4-Chlorophenyl-phenyl Ether	103

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[redacted]

Lab ID#: 1604019-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040406**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 06:22 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	106
4,6-Dinitro-2-methylphenol	104
N-Nitrosodiphenylamine	100
4-Bromophenyl-phenyl Ether	101
Hexachlorobenzene	100
Pentachlorophenol	70
Phenanthrene	101
Anthracene	105
di-n-Butylphthalate	107
Fluoranthene	106
Pyrene	111
Butylbenzylphthalate	112
3,3'-Dichlorobenzidine	91
Chrysene	101
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	108
Di-n-Octylphthalate	112
Benzo(b)fluoranthene	105
Benzo(k)fluoranthene	109
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	100
Dibenz(a,h)anthracene	101
Benzo(g,h,i)perylene	101

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	106	21-110
Phenol-d5	102	10-110
Nitrobenzene-d5	104	35-114
2,4,6-Tribromophenol	111	10-123
Fluorene-d10	106	60-120
Pyrene-d10	110	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	106	50-150

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[redacted]

Lab ID#: 1604019-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040506**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 06:44 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	110
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
1,2-Dichlorobenzene	102
2-Methylphenol (o-Cresol)	106
bis(2-Chloroisopropyl) Ether	107
N-Nitroso-di-n-propylamine	114
4-Methylphenol/3-Methylphenol	108
Hexachloroethane	103
Nitrobenzene	104
Isophorone	112
2-Nitrophenol	100
2,4-Dimethylphenol	104
Benzoic Acid	95
bis(2-Chloroethoxy) Methane	103
2,4-Dichlorophenol	108
1,2,4-Trichlorobenzene	98
Naphthalene	101
4-Chloroaniline	104
Hexachlorobutadiene	96
4-Chloro-3-methylphenol	116
2-Methylnaphthalene	105
Hexachlorocyclopentadiene	98
2,4,6-Trichlorophenol	100
2,4,5-Trichlorophenol	100
2-Chloronaphthalene	99
2-Nitroaniline	112
Dimethylphthalate	103
Acenaphthylene	103
2,6-Dinitrotoluene	103
3-Nitroaniline	108
Acenaphthene	102
2,4-Dinitrophenol	79
4-Nitrophenol	112
2,4-Dinitrotoluene	118
Dibenzofuran	102
Diethylphthalate	106
Fluorene	105
4-Chlorophenyl-phenyl Ether	102

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[redacted]

Lab ID#: 1604019-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040506**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 06:44 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	117
4,6-Dinitro-2-methylphenol	101
N-Nitrosodiphenylamine	95
4-Bromophenyl-phenyl Ether	97
Hexachlorobenzene	95
Pentachlorophenol	76
Phenanthrene	102
Anthracene	104
di-n-Butylphthalate	105
Fluoranthene	109
Pyrene	102
Butylbenzylphthalate	109
3,3'-Dichlorobenzidine	89
Chrysene	99
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	111
Di-n-Octylphthalate	130
Benzo(b)fluoranthene	110
Benzo(k)fluoranthene	110
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	95
Dibenz(a,h)anthracene	96
Benzo(g,h,i)perylene	93

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	102	21-110
Phenol-d5	107	10-110
Nitrobenzene-d5	109	35-114
2,4,6-Tribromophenol	112	10-123
Fluorene-d10	103	60-120
Pyrene-d10	101	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	110	50-150

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[redacted]

Lab ID#: 1604019-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 07:51 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
Phenol	82	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	79	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	71	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	99	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	82	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	102	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	93	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	79	10-80
2,4-Dinitrotoluene	107 Q	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604019-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/4/16 07:51 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	11	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	112	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	56	21-110
Phenol-d5	72	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	81	10-123
Fluorene-d10	82	60-120
Pyrene-d10	98	60-120
Benzo(a)pyrene-d12	95	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604019-11AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 07:43 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	66	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	94	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	76	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	98	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	88	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	74	10-80
2,4-Dinitrotoluene	95	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604019-11AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/5/16 07:43 PM**	
		Date of Extraction: 4/4/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	25	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	109	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	72	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	78	60-120
Pyrene-d10	98	60-120
Benzo(a)pyrene-d12	93	50-150
Fluoranthene-d10	104	50-150

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Carlos Serna
	Rotameter: EMS **Serial # :** 194587-00 **Expiration Date:** 5-15-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
12A 32-ST.	Sorbent Tube	SVOCs TO-13A	~~4.8~~	4.8	0841	0811	1410	6,768	Dinning / Kitchen
			Avg:	4.8					
13A 23-ST.	Sorbent Tube	SVOCs TO-13A	~~4.8~~	5.0	1021	0954	1413	6,924	Dinning Rm
			Avg:	4.9					
15A 14-ST.	Sorbent Tube	SVOCs TO-13A	4.8	4.8	1142	1119	1417	6,802	Dinning Rm
			Avg:	4.8					
14A 14-ST-EXT.	Sorbent Tube	SVOCs TO-13A	4.8	4.7	1159	1127	1,408	6,688	Rear Patio
			Avg:	4.75					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 10.8°C
FedEx

Relinquished by:	**Date:** 4/1/16	**Time:** 1742	**Received by:**	**Date:** 4/1/16	**Time:** 1746
Relinquished by: to FedEx	**Date:** 4/1/16	**Time:** 1745	**Received by:** UPS	**Date:** 4-2-16	**Time:** 0925
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604019

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Celes Semrad
	Rotameter: EMS **Serial # :** 194587-00	**Expiration Date:** 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A	Avg:						
4-S 56-ST	Sorbent Tube	SVOC's TO-13A	4.8		1331		VOID		Living Rm & Stairs
			Avg:						
4-S 56-ST-D	Sorbent Tube	SVOC's TO-13A	4.8		1331		VOID		Living Rm & Stairs.
			Avg:						
85-ST. 5A	Sorbent Tube	SVOC's TO-13A	4.8	5.0	1548	1518	1,410	6,909	FAMILY RM
			Avg: 4.9						
116-ST. 6A	Sorbent Tube	SVOC's TO-13A	4.8	5.0	1620	1542	1,402	6,870	Dining Rm
			Avg: 4.9						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 10.8°C
FedEX

Relinquished by:	**Date:** 4/1/16	**Time:** 1742	**Received by:**	**Date:** 4/1/16	**Time:** [illegible]
Relinquished by: TO FEDEX	**Date:**	**Time:**	**Received by:** VIA FAX	**Date:** 4-2-16	**Time:** 0925
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604019

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Celso Serrano
	Rotameter: EMS Serial # : 194587-00 Expiration Date: 5-15-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A	Avg:						
14-ST	SORBENT TUBE	SVOC's TO-13A	4.8	4.8	1741	1717	1416	6,797	DINNING RM
14-ST-B	Sorbent Tube	TO-13A	—	—	—	—	—	—	Field Blank
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? Y N None Temp 10.8°C
FedEX

Relinquished by:	Date: 4/1/16	Time: 1742	Received by:	Date: 4/1/16	Time: 1746
Relinquished by: To FEDEX	Date: 4/1/16	Time: 1749	Received by: WHEATZ	Date: 4-2-16	Time: 0925
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

1604019

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4/8/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604070

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/5/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604070

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/05/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/08/2016		

FRACTION #	NAME	TEST
01A	55-ST	Modified TO-13A
02A	Lab Blank	Modified TO-13A
03A	CCV	Modified TO-13A
04A	LCS	Modified TO-13A
04AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/08/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604070

One PUF/XAD Cartridge-Low Volume sample was received on April 05, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridge was pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/23/16.

Sampling volumes were supplied by the client. A sample volume of 6706 L was used to report the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604070-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	9.7	1.4
Isophorone	1.0	0.15	0.66 J	0.098 J
Naphthalene	1.0	0.15	0.88 J	0.13 J
di-n-Butylphthalate	5.0	0.74	1.0 J	0.16 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	17 NJ
Ethylbenzene	100-41-4	95%	74 NJ
p-Xylene	106-42-3	97%	290 NJ
o-Xylene	95-47-6	97%	65 NJ
Ethanol, 2-butoxy-	111-76-2	91%	65 NJ
.beta.-Myrcene	123-35-3	72%	18 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	98 NJ
D-Limonene	5989-27-5	93%	1100 NJ
Butanoic acid, 3-methylbutyl ester	106-27-4	90%	14 NJ
1-Octanol	111-87-5	58%	10 NJ

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[redacted]

Lab ID#: 1604070-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040621**	**Date of Collection: 4/1/16 8:52:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:17 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	9.7	1.4
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	0.66 J	0.098 J
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.88 J	0.13 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604070-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040621**	**Date of Collection:**	**4/1/16 8:52:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 04:17 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.0 J	0.16 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	17 NJ
Ethylbenzene	100-41-4	95%	74 NJ
p-Xylene	106-42-3	97%	290 NJ
o-Xylene	95-47-6	97%	65 NJ
Ethanol, 2-butoxy-	111-76-2	91%	65 NJ
.beta.-Myrcene	123-35-3	72%	18 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	98 NJ
D-Limonene	5989-27-5	93%	1100 NJ
Butanoic acid, 3-methylbutyl ester	106-27-4	90%	14 NJ
1-Octanol	111-87-5	58%	10 NJ

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[redacted]

Lab ID#: 1604070-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040621**	**Date of Collection: 4/1/16 8:52:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:17 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6700

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	62	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	64	10-123
Fluorene-d10	72	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604070-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604070-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	11 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	95%	4.5 NJ
Methanimidamide, N,N-dimethyl-N'-phenyl-	1783-25-1	64%	6.0 NJ

Air Sample Volume(L): 6700

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	21-110
Phenol-d5	65	10-110

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[redacted]

Lab ID#: 1604070-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: 4/5/16	

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	50	10-123
Fluorene-d10	65	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	87	50-150

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[redacted]

Lab ID#: 1604070-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040609**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:22 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	103
bis(2-Chloroethyl) Ether	96
2-Chlorophenol	98
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
1,2-Dichlorobenzene	95
2-Methylphenol (o-Cresol)	102
bis(2-Chloroisopropyl) Ether	101
N-Nitroso-di-n-propylamine	104
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	99
Nitrobenzene	100
Isophorone	104
2-Nitrophenol	100
2,4-Dimethylphenol	100
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	100
2,4-Dichlorophenol	101
1,2,4-Trichlorobenzene	96
Naphthalene	97
4-Chloroaniline	99
Hexachlorobutadiene	93
4-Chloro-3-methylphenol	109
2-Methylnaphthalene	100
Hexachlorocyclopentadiene	96
2,4,6-Trichlorophenol	99
2,4,5-Trichlorophenol	105
2-Chloronaphthalene	97
2-Nitroaniline	109
Dimethylphthalate	100
Acenaphthylene	99
2,6-Dinitrotoluene	102
3-Nitroaniline	105
Acenaphthene	99
2,4-Dinitrophenol	71
4-Nitrophenol	102
2,4-Dinitrotoluene	108
Dibenzofuran	100
Diethylphthalate	104
Fluorene	101
4-Chlorophenyl-phenyl Ether	97

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[redacted]

Lab ID#: 1604070-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040609**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:22 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	101
4,6-Dinitro-2-methylphenol	88
N-Nitrosodiphenylamine	94
4-Bromophenyl-phenyl Ether	96
Hexachlorobenzene	93
Pentachlorophenol	72
Phenanthrene	96
Anthracene	99
di-n-Butylphthalate	100
Fluoranthene	96
Pyrene	105
Butylbenzylphthalate	108
3,3'-Dichlorobenzidine	88
Chrysene	96
Benzo(a)anthracene	98
bis(2-Ethylhexyl)phthalate	104
Di-n-Octylphthalate	108
Benzo(b)fluoranthene	100
Benzo(k)fluoranthene	102
Benzo(a)pyrene	102
Indeno(1,2,3-c,d)pyrene	98
Dibenz(a,h)anthracene	96
Benzo(g,h,i)perylene	96

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	97	21-110
Phenol-d5	96	10-110
Nitrobenzene-d5	102	35-114
2,4,6-Tribromophenol	104	10-123
Fluorene-d10	99	60-120
Pyrene-d10	104	60-120
Benzo(a)pyrene-d12	103	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604070-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:51 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
Phenol	72	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	66	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	60	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	71	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	85	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	79	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	86	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604070-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:51 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	16	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	97	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	70	10-123
Fluorene-d10	75	60-120
Pyrene-d10	83	60-120
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	95	50-150

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[redacted]

Lab ID#: 1604070-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:21 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
Phenol	70	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	67	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	61	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	80	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	68	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	85	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	75	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	64	10-80
2,4-Dinitrotoluene	86	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604070-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:21 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	13	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	93	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	58	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	73	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	72	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	99	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/1/14

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Evan A. Schmidt

Rotameter: EMS **Serial # :** 194567-00 **Expiration Date:** 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
55-ST	Sorbent Tube	TO-13A	4.8	4.8	0935	0852	1397	0705.6	
			Avg: 4.8						
~~55-ST-B~~	~~Sorbent Tube~~	~~TO-13A~~	–	–	–	–	–	–	Field Blank (YAS)
			Avg: –		–	–			
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? Y N None Temp 2.8°C
FedEX

Relinquished by: Wallace Somers	**Date:** 4-2-14	**Time:** 1619	**Received by:** [signature]	**Date:** 4/2/14	**Time:** 1620
Relinquished by: [signature] to Fedex	**Date:** 4/2/14	**Time:** 5:10	**Received by:** [signature] EATL	**Date:** 4-5-16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604070

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4/8/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604071

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/5/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604071

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/05/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/08/2016		

FRACTION #	NAME	TEST
01A	12-ST	Modified TO-13A
02A	11-ST	Modified TO-13A
03A	11-ST-D	Modified TO-13A
04A	112-ST	Modified TO-13A
05A	68-ST	Modified TO-13A
06A	46-ST	Modified TO-13A
07A	9-PVC	Modified TO-13A
08A	71-ST	Modified TO-13A
09A	Lab Blank	Modified TO-13A
10A	CCV	Modified TO-13A
11A	LCS	Modified TO-13A
11AA	LCSD	Modified TO-13A

CERTIFIED BY: DATE: 04/08/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604071

Eight PUF/XAD Cartridge-Low Volume samples were received on April 05, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/23/16, 3/25/16, and 3/31/16.

Sampling volumes were supplied by the client. A sample volume of 7035 L was used to report the sample 9-PVC and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are

reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604071-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	2.8 J	0.42 J
Naphthalene	1.0	0.15	2.6	0.38
2-Methylnaphthalene	1.0	0.15	0.75 J	0.11 J
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	64%	9.3 NJ
Tetrachloroethylene	127-18-4	97%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	30 NJ
1R-.alpha.-Pinene	7785-70-8	96%	14 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	25 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	150 NJ
Nonanal	124-19-6	90%	16 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	50 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Unknown	NA	NA	15 J

[redacted]

Lab ID#: 1604071-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	4.4 J	0.62 J
1,4-Dichlorobenzene	1.0	0.14	5.0	0.72
Isophorone	1.0	0.14	0.87 J	0.12 J
Naphthalene	1.0	0.14	0.54 J	0.077 J
Acenaphthene	1.0	0.14	0.18 J	0.026 J
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604071-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Nonane	111-84-2	91%	13 NJ
Octanal	124-13-0	72%	9.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	30 NJ
Nonanal	124-19-6	90%	25 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	37 NJ
3-Pentanol, 2-methyl-	565-67-3	50%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	16 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	56%	12 NJ

[redacted]

Lab ID#: 1604071-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	3.8 J	0.57 J
1,4-Dichlorobenzene	1.0	0.15	4.4	0.66
Isophorone	1.0	0.15	0.84 J	0.12 J
Naphthalene	1.0	0.15	0.52 J	0.078 J
di-n-Butylphthalate	5.0	0.75	1.7 J	0.26 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
Nonane	111-84-2	91%	12 NJ
Octanal	124-13-0	78%	9.6 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	29 NJ
Nonanal	124-19-6	91%	25 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	36 NJ
Cyclohexanemethanol, .alpha.,.alpha.,4-t	498-81-7	53%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	56%	12 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604071-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.0 J	0.58 J
1,4-Dichlorobenzene	1.0	0.14	1.7	0.25
Naphthalene	1.0	0.14	0.36 J	0.052 J
di-n-Butylphthalate	5.0	0.72	1.2 J	0.18 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	25 NJ
Benzaldehyde	100-52-7	96%	8.2 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	7.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	22 NJ
Nonanal	124-19-6	90%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	17 NJ
Dodecane	112-40-3	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	12 NJ
Tridecane	629-50-5	97%	15 NJ

[redacted]

Lab ID#: 1604071-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.9	0.87
1,4-Dichlorobenzene	1.0	0.15	0.94 J	0.14 J
Naphthalene	1.0	0.15	6.0	0.88
2-Methylnaphthalene	1.0	0.15	0.75 J	0.11 J
Phenanthrene	1.0	0.15	0.16 J	0.023 J
di-n-Butylphthalate	5.0	0.74	1.2 J	0.18 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	29 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604071-05A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
p-Xylene	106-42-3	97%	15 NJ
Ethanol, 2-butoxy-	111-76-2	91%	22 NJ
Benzaldehyde	100-52-7	95%	26 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	25 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	16 NJ
Nonanal	124-19-6	90%	16 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	15 NJ

[redacted]

Lab ID#: 1604071-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	4.3 J	0.64 J
1,4-Dichlorobenzene	1.0	0.15	11	1.7
Naphthalene	1.0	0.15	0.75 J	0.11 J
di-n-Butylphthalate	5.0	0.75	0.65 J	0.098 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	5.5 NJ
Acetophenone	98-86-2	64%	5.8 NJ
Octanal	124-13-0	74%	4.9 NJ
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	96%	7.3 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	32 NJ
Decanal	112-31-2	91%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	16 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604071-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	3.7 J	0.52 J
1,4-Dichlorobenzene	1.0	0.14	0.56 J	0.080 J
Naphthalene	1.0	0.14	0.33 J	0.046 J
di-n-Butylphthalate	5.0	0.71	2.5 J	0.36 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	24 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	690 NJ
2-Propanol, 1-(2-methoxy-1-methylethoxy)	20324-32-7	78%	8.5 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	78%	14 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	10 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	21 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	32 NJ
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	56%	32 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	16 NJ

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Lab ID#: 1604071-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.78	9.0	1.4
1,4-Dichlorobenzene	1.0	0.16	1.2	0.19
Isophorone	1.0	0.16	0.78 J	0.12 J
Naphthalene	1.0	0.16	3.6	0.55
2-Methylnaphthalene	1.0	0.16	1.3	0.20
Acenaphthene	1.0	0.16	0.26 J	0.041 J
Phenanthrene	1.0	0.16	0.14 J	0.021 J
di-n-Butylphthalate	5.0	0.78	2.3 J	0.36 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604071-08A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	100 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	90%	30 NJ
Undecane	1120-21-4	94%	55 NJ
Nonanal	124-19-6	80%	29 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	550 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	26 NJ
4-tert-Butylcyclohexyl acetate	32210-23-4	64%	30 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	91%	28 NJ
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione	298688-32-1	35%	37 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	52%	110 NJ

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Lab ID#: 1604071-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040613**	**Date of Collection: 4/1/16 8:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:20 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	2.8 J	0.42 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	2.6	0.38
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.75 J	0.11 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604071-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040613**	**Date of Collection:**	**4/1/16 8:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 12:20 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	64%	9.3 NJ
Tetrachloroethylene	127-18-4	97%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	30 NJ
1R-.alpha.-Pinene	7785-70-8	96%	14 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	25 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	150 NJ
Nonanal	124-19-6	90%	16 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	50 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Unknown	NA	NA	15 J

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Lab ID#: 1604071-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040613**	**Date of Collection: 4/1/16 8:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:20 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6800

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	72	60-120
Pyrene-d10	73	60-120
Benzo(a)pyrene-d12	79	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1604071-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040614**	**Date of Collection: 4/1/16 9:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:50 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	4.4 J	0.62 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	5.0	0.72
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	0.87 J	0.12 J
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.54 J	0.077 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	0.18 J	0.026 J
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604071-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040614**	**Date of Collection:**	**4/1/16 9:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 12:50 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
Nonane	111-84-2	91%	13 NJ
Octanal	124-13-0	72%	9.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	30 NJ
Nonanal	124-19-6	90%	25 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	37 NJ
3-Pentanol, 2-methyl-	565-67-3	50%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	16 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	56%	12 NJ

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Lab ID#: 1604071-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040614**	**Date of Collection: 4/1/16 9:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:50 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 7040

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	71	60-120
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	93	50-150

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Lab ID#: 1604071-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040615**	**Date of Collection: 4/1/16 9:23:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:19 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	3.8 J	0.57 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	4.4	0.66
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	0.84 J	0.12 J
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.52 J	0.078 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604071-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040615**	**Date of Collection:**	**4/1/16 9:23:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 01:19 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	1.7 J	0.26 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
Nonane	111-84-2	91%	12 NJ
Octanal	124-13-0	78%	9.6 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	29 NJ
Nonanal	124-19-6	91%	25 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	36 NJ
Cyclohexanemethanol, .alpha.,.alpha.,4-t	498-81-7	53%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	56%	12 NJ

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Lab ID#: 1604071-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040615**	**Date of Collection: 4/1/16 9:23:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:19 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6700

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	73	10-123
Fluorene-d10	70	60-120
Pyrene-d10	71	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1604071-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040616**	**Date of Collection:**	**4/1/16 10:27:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 01:49 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.0 J	0.58 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	1.7	0.25
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.36 J	0.052 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604071-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040616**	**Date of Collection: 4/1/16 10:27:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:49 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.2 J	0.18 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	25 NJ
Benzaldehyde	100-52-7	96%	8.2 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	7.8 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	22 NJ
Nonanal	124-19-6	90%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	17 NJ
Dodecane	112-40-3	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	12 NJ
Tridecane	629-50-5	97%	15 NJ

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Lab ID#: 1604071-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040616**	**Date of Collection: 4/1/16 10:27:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:49 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6950

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	54	21-110
Phenol-d5	62	10-110
Nitrobenzene-d5	64	35-114
2,4,6-Tribromophenol	67	10-123
Fluorene-d10	65	60-120
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	67	50-150
Fluoranthene-d10	87	50-150

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Lab ID#: 1604071-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040617**	**Date of Collection: 4/1/16 11:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:19 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.9	0.87
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.94 J	0.14 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	6.0	0.88
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.75 J	0.11 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604071-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040617**	**Date of Collection:**	**4/1/16 11:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 02:19 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.16 J	0.023 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.2 J	0.18 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	29 NJ
p-Xylene	106-42-3	97%	15 NJ
Ethanol, 2-butoxy-	111-76-2	91%	22 NJ
Benzaldehyde	100-52-7	95%	26 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	25 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	16 NJ
Nonanal	124-19-6	90%	16 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	15 NJ

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Lab ID#: 1604071-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040617**	**Date of Collection: 4/1/16 11:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:19 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6780

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	71	60-120
Pyrene-d10	72	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604071-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040618**	**Date of Collection:**	**4/1/16 1:09:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 02:48 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	4.3 J	0.64 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	11	1.7
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.75 J	0.11 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604071-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040618**	**Date of Collection:**	**4/1/16 1:09:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 02:48 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	0.65 J	0.098 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	5.5 NJ
Acetophenone	98-86-2	64%	5.8 NJ
Octanal	124-13-0	74%	4.9 NJ
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	96%	7.3 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	32 NJ
Decanal	112-31-2	91%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	16 NJ

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[redacted]

Lab ID#: 1604071-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040618**	**Date of Collection: 4/1/16 1:09:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:48 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6680

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	81	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	73	10-123
Fluorene-d10	74	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	88	50-150

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Lab ID#: 1604071-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040619**	**Date of Collection: 4/1/16 3:10:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:18 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	3.7 J	0.52 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	0.56 J	0.080 J
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.33 J	0.046 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604071-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040619**	**Date of Collection:**	**4/1/16 3:10:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 03:18 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	2.5 J	0.36 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	24 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	690 NJ
2-Propanol, 1-(2-methoxy-1-methylethoxy)	20324-32-7	78%	8.5 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	78%	14 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	10 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	21 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	32 NJ
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	56%	32 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	16 NJ

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Lab ID#: 1604071-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040619**	**Date of Collection: 4/1/16 3:10:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:18 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 7040

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	21-110
Phenol-d5	88	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	76	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1604071-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040620**	**Date of Collection: 4/1/16 2:30:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:47 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.78	9.0	1.4
bis(2-Chloroethyl) Ether	1.0	0.16	Not Detected	Not Detected
2-Chlorophenol	5.0	0.78	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.16	1.2	0.19
1,2-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.78	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.16	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.16	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.78	Not Detected	Not Detected
Hexachloroethane	1.0	0.16	Not Detected	Not Detected
Nitrobenzene	1.0	0.16	Not Detected	Not Detected
Isophorone	1.0	0.16	0.78 J	0.12 J
2-Nitrophenol	5.0	0.78	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.78	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.16	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.78	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.16	Not Detected	Not Detected
Naphthalene	1.0	0.16	3.6	0.55
4-Chloroaniline	10	1.6	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.16	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.78	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.16	1.3	0.20
Hexachlorocyclopentadiene	20	3.1	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.78	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.6	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.16	Not Detected	Not Detected
2-Nitroaniline	10	1.6	Not Detected	Not Detected
Dimethylphthalate	5.0	0.78	Not Detected	Not Detected
Acenaphthylene	1.0	0.16	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.78	Not Detected	Not Detected
3-Nitroaniline	10	1.6	Not Detected	Not Detected
Acenaphthene	1.0	0.16	0.26 J	0.041 J
2,4-Dinitrophenol	40	6.2	Not Detected	Not Detected
4-Nitrophenol	40	6.2	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.78	Not Detected	Not Detected
Dibenzofuran	1.0	0.16	Not Detected	Not Detected
Diethylphthalate	5.0	0.78	Not Detected	Not Detected
Fluorene	1.0	0.16	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.16	Not Detected	Not Detected

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Lab ID#: 1604071-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040620**	**Date of Collection:**	**4/1/16 2:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 03:47 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.6	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.6	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.6	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.16	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.16	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.16	0.14 J	0.021 J
Anthracene	1.0	0.16	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.78	2.3 J	0.36 J
Fluoranthene	1.0	0.16	Not Detected	Not Detected
Pyrene	1.0	0.16	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.78	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.1	Not Detected	Not Detected
Chrysene	1.0	0.16	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.16	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.78	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.78	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.16	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.16	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.16	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.16	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.16	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.16	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	100 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	90%	30 NJ
Undecane	1120-21-4	94%	55 NJ
Nonanal	124-19-6	80%	29 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	550 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	26 NJ
4-tert-Butylcyclohexyl acetate	32210-23-4	64%	30 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	91%	28 NJ
1H-Pyrrolo[3,4-c]pyridine-1,3,(2H)-dione	298688-32-1	35%	37 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	52%	110 NJ

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Lab ID#: 1604071-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040620**	**Date of Collection: 4/1/16 2:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:47 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6450

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	78	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	104	50-150

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Lab ID#: 1604071-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604071-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	11 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	95%	4.5 NJ
Methanimidamide, N,N-dimethyl-N'-phenyl-	1783-25-1	64%	6.0 NJ

Air Sample Volume(L): 7040

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	21-110
Phenol-d5	65	10-110

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Lab ID#: 1604071-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: 4/5/16	

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	50	10-123
Fluorene-d10	65	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	87	50-150

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[redacted]

Lab ID#: 1604071-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040609**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:22 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	103
bis(2-Chloroethyl) Ether	96
2-Chlorophenol	98
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
1,2-Dichlorobenzene	95
2-Methylphenol (o-Cresol)	102
bis(2-Chloroisopropyl) Ether	101
N-Nitroso-di-n-propylamine	104
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	99
Nitrobenzene	100
Isophorone	104
2-Nitrophenol	100
2,4-Dimethylphenol	100
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	100
2,4-Dichlorophenol	101
1,2,4-Trichlorobenzene	96
Naphthalene	97
4-Chloroaniline	99
Hexachlorobutadiene	93
4-Chloro-3-methylphenol	109
2-Methylnaphthalene	100
Hexachlorocyclopentadiene	96
2,4,6-Trichlorophenol	99
2,4,5-Trichlorophenol	105
2-Chloronaphthalene	97
2-Nitroaniline	109
Dimethylphthalate	100
Acenaphthylene	99
2,6-Dinitrotoluene	102
3-Nitroaniline	105
Acenaphthene	99
2,4-Dinitrophenol	71
4-Nitrophenol	102
2,4-Dinitrotoluene	108
Dibenzofuran	100
Diethylphthalate	104
Fluorene	101
4-Chlorophenyl-phenyl Ether	97

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[redacted]

Lab ID#: 1604071-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040609**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:22 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	101
4,6-Dinitro-2-methylphenol	88
N-Nitrosodiphenylamine	94
4-Bromophenyl-phenyl Ether	96
Hexachlorobenzene	93
Pentachlorophenol	72
Phenanthrene	96
Anthracene	99
di-n-Butylphthalate	100
Fluoranthene	96
Pyrene	105
Butylbenzylphthalate	108
3,3'-Dichlorobenzidine	88
Chrysene	96
Benzo(a)anthracene	98
bis(2-Ethylhexyl)phthalate	104
Di-n-Octylphthalate	108
Benzo(b)fluoranthene	100
Benzo(k)fluoranthene	102
Benzo(a)pyrene	102
Indeno(1,2,3-c,d)pyrene	98
Dibenz(a,h)anthracene	96
Benzo(g,h,i)perylene	96

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	97	21-110
Phenol-d5	96	10-110
Nitrobenzene-d5	102	35-114
2,4,6-Tribromophenol	104	10-123
Fluorene-d10	99	60-120
Pyrene-d10	104	60-120
Benzo(a)pyrene-d12	103	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604071-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:51 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
Phenol	72	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	66	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	60	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	71	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	85	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	79	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	86	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604071-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:51 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	16	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	97	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	70	10-123
Fluorene-d10	75	60-120
Pyrene-d10	83	60-120
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	95	50-150

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[redacted]

Lab ID#: 1604071-11AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:21 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
Phenol	70	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	67	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	61	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	80	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	68	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	85	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	75	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	64	10-80
2,4-Dinitrotoluene	86	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604071-11AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:21 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	13	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	93	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	58	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	73	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	72	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	99	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/1/2016

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: KURT STURDEVANT / KURT 4/4/2016

INFO OBTAINED FROM CAL COURT

Rotameter: KEY INSTRUMENT **Serial # :** 001459 **Expiration Date:** 4-28-2016

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
	Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
				Avg:						
1A	12-ST			4.8	4.8	8:48	0824	1416	6796.8	BATCH ID DEN/DINING ROOM
				Avg:	4.8					
2A	11-ST			4.8	5.2	9:57	0922	1407	7035	BATCH ID 161023 CERT 3/24/16 DINING ADDITION
				Avg:	5.0					
3A	11-ST-D			4.8	4.7	9:53	0922	1410	6997.5	BATCH ID 161023 CERT 3/24/16 DINING ADDITION
				Avg:	4.75					
4A	112-ST			4.8	5.0	10:49	1027	1418	6948.2	BATCH ID 161013 CERT DATE 3/21/16 FORMAL DINING
				Avg:	4.9					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 2.8°C
FedEx

Relinquished by: Wallace Stevens	**Date:** 4-5-16	**Time:** 1610	**Received by:**	**Date:** 4/5/16	**Time:** 1620
Relinquished by: via FedEx	**Date:** 4/5/16	**Time:** 1500	**Received by:**	**Date:** 4-5-16	**Time:** 1620
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604071

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/1/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** IVAN MYERS / KURT SEVERSON

Rotameter: KEY INSTRUMENT **Serial #:** 001455 **Expiration Date:** 04/28/2016

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
68ST			4.8	4.8	1212	1105	1413	6782	BATCH ID 160323 COC 3/31/16 FORMAL DIVING
			Avg: 4.8						
46 8T			4.8	4.9	1412	1309	1377	6678	BATCH ID ~~160326~~ 160323 FORMAL DIVING COC DATE 3/31/16 405 FEDERAL EXPRESS
			Avg: 4.85						
9-PVC 4-2-16	VOID		4.8	5.0	~~1508~~	1510	1500		BATCH ID 160323
~~9-PVC~~			Avg: 4.9						COC 3/31/16 FORMAL DIVING 1200M
~~SAMPLE~~									
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
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* INCORRECTLY VOIDED SAMPLE IS STILL GOOD

Custody Seal Intact: Y N None Temp 2.8°C FedEx

Relinquished by: Walker Stevens	**Date:** 4.2.16	**Time:** 1610	**Received by:**	**Date:** 4/2/16	**Time:** 1620
Relinquished by: [redacted] to FedEx	**Date:** 4-4-16	**Time:** 5:10 pm	**Received by:** BM EATL	**Date:** 4-5-16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

160407

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/1/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: kmt
	Rotameter: key Serial # : V01459	Expiration Date: 4-28-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
71-ST.	"	"	4.8	5.1	1648	1930	1303	6450	BATCH ID 160323 CERT ID 3/31/16 ~~KITCHEN~~ FORMAL LIVING ROOM + DEN
			Avg: 4.95						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 2.8°C
FedEx

Relinquished by: Wallace Sconces	Date: 4-7-16	Time: 1010	Received by:	Date:	Time:
Relinquished by: to FedEx	Date: 4-7-16	Time: 500 PM	Received by: AR EATL	Date: 4-8-16	Time: 1020
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

1604071

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4/8/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604072

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/5/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604072

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/05/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/08/2016		

FRACTION #	NAME	TEST
01A	89-ST	Modified TO-13A
02A	91-ST	Modified TO-13A
03A	25-ST	Modified TO-13A
04A	25-STD	Modified TO-13A
05A	25-ST-EXT	Modified TO-13A
06A	64-ST-	Modified TO-13A
07A	97-ST	Modified TO-13A
08A	17-ST	Modified TO-13A
09A	17-ST-FB	Modified TO-13A
10A	Lab Blank	Modified TO-13A
11A	CCV	Modified TO-13A
12A	LCS	Modified TO-13A
12AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/08/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604072

Nine PUF/XAD Cartridge-Low Volume samples were received on April 05, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/25/16, and 3/31/16.

Sampling volumes were supplied by the client. A sample volume of 7079 L was used to report the sample 17-ST-FB and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are

reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604072-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.7 J	0.67 J
Naphthalene	1.0	0.14	0.49 J	0.070 J
di-n-Butylphthalate	5.0	0.72	1.7 J	0.24 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
Ethanol, 2-butoxy-	111-76-2	91%	18 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	83%	20 NJ
Pentafluoropropionic acid, 2-ethylhexyl	1000280-14-6	50%	21 NJ
D-Limonene	5989-27-5	94%	17 NJ
Octane, 5-ethyl-2-methyl-	62016-18-6	59%	24 NJ
Heptane, 5-ethyl-2,2,3-trimethyl-	62199-06-8	83%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	81 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	16 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	22 NJ

[redacted]

Lab ID#: 1604072-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	15	2.2
1,4-Dichlorobenzene	1.0	0.15	0.70 J	0.10 J
Naphthalene	1.0	0.15	0.77 J	0.11 J
2-Methylnaphthalene	1.0	0.15	0.53 J	0.078 J
di-n-Butylphthalate	5.0	0.74	0.67 J	0.099 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Acetic acid, butyl ester	123-86-4	47%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
1R-.alpha.-Pinene	7785-70-8	96%	26 NJ
Benzaldehyde	100-52-7	96%	19 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604072-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	290 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	55 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	480 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	55%	19 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	72%	27 NJ
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc	127-43-5	43%	24 NJ

[redacted]

Lab ID#: 1604072-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.4 J	0.65 J
1,4-Dichlorobenzene	1.0	0.15	2.1	0.31
Naphthalene	1.0	0.15	1.0	0.15
Phenanthrene	1.0	0.15	0.093 J	0.014 J
di-n-Butylphthalate	5.0	0.74	1.4 J	0.21 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	6.4 NJ
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	24 NJ
o-Xylene	95-47-6	97%	13 NJ
Ethanol, 2-butoxy-	111-76-2	91%	7.6 NJ
Benzene, (1-methylethyl)-	98-82-8	59%	9.2 NJ
Benzene, 1,2,3-trimethyl-	526-73-8	95%	7.2 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	7.2 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	13 NJ

[redacted]

Lab ID#: 1604072-04A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604072-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	5.5	0.77
1,4-Dichlorobenzene	1.0	0.14	2.5	0.35
Naphthalene	1.0	0.14	1.3	0.18
2-Methylnaphthalene	1.0	0.14	0.52 J	0.074 J
Phenanthrene	1.0	0.14	0.10 J	0.014 J
di-n-Butylphthalate	5.0	0.71	1.6 J	0.22 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	29 NJ
o-Xylene	95-47-6	97%	13 NJ
Ethanol, 2-butoxy-	111-76-2	91%	9.3 NJ
Acetophenone	98-86-2	58%	10 NJ
Benzene, 1,2,3-trimethyl-	526-73-8	97%	8.2 NJ
Nonanal	124-19-6	90%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	8.4 NJ
Octanoic Acid	124-07-2	80%	7.2 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ

[redacted]

Lab ID#: 1604072-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.25 J	0.037 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	6.1 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	13 NJ
Tridecane	629-50-5	94%	5.7 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604072-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	3.9 J	0.56 J
Naphthalene	1.0	0.14	0.91 J	0.13 J
di-n-Butylphthalate	5.0	0.72	3.8 J	0.54 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	5.8 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	39 NJ
Cyclohexene, 1-methyl-5-(1-methylethenyl	13898-73-2	90%	8.9 NJ
Nonanal	124-19-6	86%	6.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	50%	5.1 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	6.6 NJ

[redacted]

Lab ID#: 1604072-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	3.9 J	0.57 J
1,4-Dichlorobenzene	1.0	0.15	0.66 J	0.098 J
Naphthalene	1.0	0.15	5.6	0.83
2-Methylnaphthalene	1.0	0.15	1.9	0.28
Phenanthrene	1.0	0.15	0.10 J	0.015 J
di-n-Butylphthalate	5.0	0.74	2.5 J	0.38 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Octane, 2,5,6-trimethyl-	62016-14-2	64%	97 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	78%	46 NJ
Decane, 2,2-dimethyl-	17302-37-3	78%	74 NJ
Hexane, 3,3-dimethyl-	563-16-6	80%	97 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	59%	130 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604072-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	59%	77 NJ
Undecane, 2,8-dimethyl-	17301-25-6	72%	81 NJ
Undecane, 3,3-dimethyl-	17312-65-1	64%	89 NJ
Hexane, 2,2,4-trimethyl-	16747-26-5	64%	59 NJ
Octane, 2,6-dimethyl-	2051-30-1	86%	69 NJ

[redacted]

Lab ID#: 1604072-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	1.0	0.14	9.4	1.4
Naphthalene	1.0	0.14	3.6	0.52
di-n-Butylphthalate	5.0	0.73	1.5 J	0.22 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	24 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	4.1 NJ
Nonanal	124-19-6	90%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	5.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Nonanoic acid	112-05-0	90%	4.7 NJ
Benzoic acid, 2-hydroxy-, 3-methylbutyl	87-20-7	64%	8.2 NJ
Homosalate	118-56-9	99%	12 NJ

[redacted]

Lab ID#: 1604072-09A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	16 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604072-09A

2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	29 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	13 NJ

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[redacted]

Lab ID#: 1604072-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040622**	**Date of Collection: 4/1/16 8:41:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:46 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.7 J	0.67 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.49 J	0.070 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.9	Not Detected	Not Detected
4-Nitrophenol	20	2.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604072-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040622**	**Date of Collection:**	**4/1/16 8:41:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 04:46 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	20	2.9	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.7 J	0.24 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
Ethanol, 2-butoxy-	111-76-2	91%	18 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	83%	20 NJ
Pentafluoropropionic acid, 2-ethylhexyl	1000280-14-6	50%	21 NJ
D-Limonene	5989-27-5	94%	17 NJ
Octane, 5-ethyl-2-methyl-	62016-18-6	59%	24 NJ
Heptane, 5-ethyl-2,2,3-trimethyl-	62199-06-8	83%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	81 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	16 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	22 NJ

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Lab ID#: 1604072-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040622**	**Date of Collection: 4/1/16 8:41:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:46 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6940

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	61	21-110
Phenol-d5	76	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	72	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	71	50-150
Fluoranthene-d10	89	50-150

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[redacted]

Lab ID#: 1604072-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040623**	**Date of Collection: 4/1/16 9:35:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:16 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	15	2.2
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.70 J	0.10 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.77 J	0.11 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.53 J	0.078 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	20	3.0	Not Detected	Not Detected
4-Nitrophenol	20	3.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604072-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040623**	**Date of Collection: 4/1/16 9:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:16 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	20	3.0	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.67 J	0.099 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Acetic acid, butyl ester	123-86-4	47%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
1R-.alpha.-Pinene	7785-70-8	96%	26 NJ
Benzaldehyde	100-52-7	96%	19 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	290 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	55 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	480 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	55%	19 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	72%	27 NJ
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc	127-43-5	43%	24 NJ

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Lab ID#: 1604072-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040623**	**Date of Collection: 4/1/16 9:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:16 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6740

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	74	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	98	50-150

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[redacted]

Lab ID#: 1604072-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040624**	**Date of Collection: 4/1/16 10:48:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:45 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.4 J	0.65 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	2.1	0.31
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.0	0.15
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.9	Not Detected	Not Detected
4-Nitrophenol	20	2.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604072-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040624**	**Date of Collection: 4/1/16 10:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:45 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	20	2.9	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.093 J	0.014 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.4 J	0.21 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	6.4 NJ
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	24 NJ
o-Xylene	95-47-6	97%	13 NJ
Ethanol, 2-butoxy-	111-76-2	91%	7.6 NJ
Benzene, (1-methylethyl)-	98-82-8	59%	9.2 NJ
Benzene, 1,2,3-trimethyl-	526-73-8	95%	7.2 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	7.2 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	13 NJ

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Lab ID#: 1604072-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040624**	**Date of Collection: 4/1/16 10:48:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:45 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	53	21-110
Phenol-d5	65	10-110
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	67	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1604072-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040625**	**Date of Collection: 4/1/16 10:49:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:15 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	5.5	0.77
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	2.5	0.35
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.2	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.3	0.18
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.52 J	0.074 J
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.8	Not Detected	Not Detected
4-Nitrophenol	20	2.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604072-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040625**	**Date of Collection: 4/1/16 10:49:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:15 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	20	2.8	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.10 J	0.014 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	1.6 J	0.22 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	29 NJ
o-Xylene	95-47-6	97%	13 NJ
Ethanol, 2-butoxy-	111-76-2	91%	9.3 NJ
Acetophenone	98-86-2	58%	10 NJ
Benzene, 1,2,3-trimethyl-	526-73-8	97%	8.2 NJ
Nonanal	124-19-6	90%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	87%	8.4 NJ
Octanoic Acid	124-07-2	80%	7.2 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ

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Lab ID#: 1604072-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040625**	**Date of Collection: 4/1/16 10:49:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:15 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 7080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	61	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	75	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	83	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1604072-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040626**	**Date of Collection: 4/1/16 10:50:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:45 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.25 J	0.037 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	20	3.0	Not Detected	Not Detected
4-Nitrophenol	20	3.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604072-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040626**	**Date of Collection: 4/1/16 10:50:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:45 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	20	3.0	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	6.1 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	13 NJ
Tridecane	629-50-5	94%	5.7 NJ

Air Sample Volume(L): 6760

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	45	21-110
Phenol-d5	65	10-110
Nitrobenzene-d5	68	35-114

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Lab ID#: 1604072-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040626**	**Date of Collection: 4/1/16 10:50:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:45 AM**
		Date of Extraction: 4/5/16

Surrogates	%Recovery	Method Limits
2,4,6-Tribromophenol	68	10-123
Fluorene-d10	70	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	71	50-150
Fluoranthene-d10	85	50-150

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Lab ID#: 1604072-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040627**	**Date of Collection:**	**4/1/16 11:28:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 07:14 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	3.9 J	0.56 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.91 J	0.13 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.9	Not Detected	Not Detected
4-Nitrophenol	20	2.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604072-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040627**	**Date of Collection: 4/1/16 11:28:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:14 AM**
		Date of Extraction: 4/5/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	20	2.9	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	3.8 J	0.54 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	5.8 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	39 NJ
Cyclohexene, 1-methyl-5-(1-methylethenyl	13898-73-2	90%	8.9 NJ
Nonanal	124-19-6	86%	6.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	50%	5.1 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	6.6 NJ

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Lab ID#: 1604072-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040627**	**Date of Collection: 4/1/16 11:28:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:14 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6940

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	42	21-110
Phenol-d5	63	10-110
Nitrobenzene-d5	62	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	69	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	78	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1604072-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040628**	**Date of Collection: 4/1/16 1:13:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:44 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	3.9 J	0.57 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.66 J	0.098 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	5.6	0.83
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	1.9	0.28
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	20	3.0	Not Detected	Not Detected
4-Nitrophenol	20	3.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604072-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040628**	**Date of Collection: 4/1/16 1:13:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:44 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	20	3.0	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.10 J	0.015 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	2.5 J	0.38 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Octane, 2,5,6-trimethyl-	62016-14-2	64%	97 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	78%	46 NJ
Decane, 2,2-dimethyl-	17302-37-3	78%	74 NJ
Hexane, 3,3-dimethyl-	563-16-6	80%	97 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	59%	130 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	59%	77 NJ
Undecane, 2,8-dimethyl-	17301-25-6	72%	81 NJ
Undecane, 3,3-dimethyl-	17312-65-1	64%	89 NJ
Hexane, 2,2,4-trimethyl-	16747-26-5	64%	59 NJ
Octane, 2,6-dimethyl-	2051-30-1	86%	69 NJ

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Lab ID#: 1604072-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040628**	**Date of Collection: 4/1/16 1:13:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:44 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6760

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	50	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	60	35-114
2,4,6-Tribromophenol	68	10-123
Fluorene-d10	67	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	74	50-150
Fluoranthene-d10	86	50-150

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Lab ID#: 1604072-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040629**	**Date of Collection: 4/1/16 2:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:13 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	9.4	1.4
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	3.6	0.52
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.9	Not Detected	Not Detected
4-Nitrophenol	20	2.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604072-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040629**	**Date of Collection:**	**4/1/16 2:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 08:13 AM**
		Date of Extraction:	**4/5/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	20	2.9	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.5 J	0.22 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	24 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	4.1 NJ
Nonanal	124-19-6	90%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	5.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Nonanoic acid	112-05-0	90%	4.7 NJ
Benzoic acid, 2-hydroxy-, 3-methylbutyl	87-20-7	64%	8.2 NJ
Homosalate	118-56-9	99%	12 NJ

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Lab ID#: 1604072-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040629**	**Date of Collection: 4/1/16 2:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:13 AM**
		Date of Extraction: 4/5/16

Air Sample Volume(L): 6860

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	51	21-110
Phenol-d5	70	10-110
Nitrobenzene-d5	68	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	74	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604072-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040630**	**Date of Collection: 4/1/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:43 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.2	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.8	Not Detected	Not Detected
4-Nitrophenol	20	2.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604072-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040630**	**Date of Collection: 4/1/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:43 AM**	
		Date of Extraction: 4/5/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	20	2.8	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	29 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	13 NJ

Air Sample Volume(L): 7080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	61	21-110
Phenol-d5	72	10-110
Nitrobenzene-d5	75	35-114
2,4,6-Tribromophenol	61	10-123

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[redacted]

Lab ID#: 1604072-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040630**	**Date of Collection:**	**4/1/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 08:43 AM**
		Date of Extraction:	**4/5/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	69	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	98	50-150

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[redacted]

Lab ID#: 1604072-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: NA	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.2	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	20	2.8	Not Detected	Not Detected
4-Nitrophenol	20	2.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604072-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: NA	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	20	2.8	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	11 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	95%	4.5 NJ
Methanimidamide, N,N-dimethyl-N'-phenyl-	1783-25-1	64%	6.0 NJ

Air Sample Volume(L): 7080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	21-110
Phenol-d5	65	10-110

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[redacted]

Lab ID#: 1604072-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040612**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:51 PM**	
		Date of Extraction: NA	

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	50	10-123
Fluorene-d10	65	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	87	50-150

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[redacted]

Lab ID#: 1604072-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040609**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:22 PM**
		Date of Extraction: 4/5/16

Compound	%Recovery
Phenol	103
bis(2-Chloroethyl) Ether	96
2-Chlorophenol	98
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
1,2-Dichlorobenzene	95
2-Methylphenol (o-Cresol)	102
bis(2-Chloroisopropyl) Ether	101
N-Nitroso-di-n-propylamine	104
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	99
Nitrobenzene	100
Isophorone	104
2-Nitrophenol	100
2,4-Dimethylphenol	100
Benzoic Acid	87
bis(2-Chloroethoxy) Methane	100
2,4-Dichlorophenol	101
1,2,4-Trichlorobenzene	96
Naphthalene	97
4-Chloroaniline	99
Hexachlorobutadiene	93
4-Chloro-3-methylphenol	109
2-Methylnaphthalene	100
Hexachlorocyclopentadiene	96
2,4,6-Trichlorophenol	99
2,4,5-Trichlorophenol	105
2-Chloronaphthalene	97
2-Nitroaniline	109
Dimethylphthalate	100
Acenaphthylene	99
2,6-Dinitrotoluene	102
3-Nitroaniline	105
Acenaphthene	99
2,4-Dinitrophenol	71
4-Nitrophenol	102
2,4-Dinitrotoluene	108
Dibenzofuran	100
Diethylphthalate	104
Fluorene	101
4-Chlorophenyl-phenyl Ether	97

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[redacted]

Lab ID#: 1604072-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040609**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:22 PM**
		Date of Extraction: 4/5/16

Compound	%Recovery
4-Nitroaniline	101
4,6-Dinitro-2-methylphenol	88
N-Nitrosodiphenylamine	94
4-Bromophenyl-phenyl Ether	96
Hexachlorobenzene	93
Pentachlorophenol	72
Phenanthrene	96
Anthracene	99
di-n-Butylphthalate	100
Fluoranthene	96
Pyrene	105
Butylbenzylphthalate	108
3,3'-Dichlorobenzidine	88
Chrysene	96
Benzo(a)anthracene	98
bis(2-Ethylhexyl)phthalate	104
Di-n-Octylphthalate	108
Benzo(b)fluoranthene	100
Benzo(k)fluoranthene	102
Benzo(a)pyrene	102
Indeno(1,2,3-c,d)pyrene	98
Dibenz(a,h)anthracene	96
Benzo(g,h,i)perylene	96

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	97	21-110
Phenol-d5	96	10-110
Nitrobenzene-d5	102	35-114
2,4,6-Tribromophenol	104	10-123
Fluorene-d10	99	60-120
Pyrene-d10	104	60-120
Benzo(a)pyrene-d12	103	50-150
Fluoranthene-d10	97	50-150

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[redacted]

Lab ID#: 1604072-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:51 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
Phenol	72	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	66	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	60	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	71	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	85	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	79	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	86	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604072-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 10:51 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	16	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	97	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	70	10-123
Fluorene-d10	75	60-120
Pyrene-d10	83	60-120
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	95	50-150

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[redacted]

Lab ID#: 1604072-12AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:21 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
Phenol	70	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	67	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	61	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	80	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	68	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	85	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	75	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	64	10-80
2,4-Dinitrotoluene	86	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604072-12AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/16 11:21 PM**	
		Date of Extraction: 4/5/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	13	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	93	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	58	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	73	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	72	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	99	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/1/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Jim Tang, Shannon Hill, Lucas Hill, Robin Fondahl

Rotameter: HSA 1154 **Serial # :** 450122 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
01A 89-ST	"	"	4.8	4.9	0850	8:41	1,431	6,940.35	main living area between kitchen + living room
			Avg: 4.85						
02A 91-ST	"	"	4.8	4.7	0955	9:35	1,420	6,745.2 ~~6,751.~~ SP	dining room
			Avg: 4.75						
03A 25-ST	"	"	4.8	4.7	1059	10:48	1,429	6,787.75	~~kitchen island~~ SH main living area walkway
			Avg: 4.75						
04A 25-STD	"	"	4.8	5.1	1059	10:49	1,430	7,078.5	~~kitchen island~~ SH "
			Avg: 4.95						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? Y N None Temp 2.8°C
FedEx

Relinquished by: Robin Fondahl	**Date:** 4-2-16	**Time:** 2:50 PM	**Received by:** [signature]	**Date:** 4/2/16	**Time:** ~~2:15~~ 3:04
Relinquished by: [signature] to Fed Ex	**Date:** 4/2/16	**Time:** 4:00 pm	**Received by:** FEDEX	**Date:** 4-5-16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604072

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/1/16

Project Location: Aliso Canyon **Samplers** - Shannan Hiff, Lucas Wallin

Client Reference: Los Angeles County **Industrial Hygienist:** Jim Tang, Robin Fomalont

Rotameter: HSA 1154 **Serial # :** 450122 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
25A 25-ST-EXT	"	"	4.8	4.7	1106	1050	1,424	6,764	patio
			Avg: 4.75						
6A ~~25~~ 04-ST-	"	"	4.8	4.95	1144	1128	1,424	6,942	living room
			Avg: 4.875						
7A 97-ST	"	"	4.8	4.85	1333	1313	1,400	6,755	bedroom
			Avg: 4.825						
8A 17-ST	"	"	4.8	4.85	1418	1400	1,422	6,861.15	kitchen
			Avg: 4.825						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact
Y N None Temp 2.8°c
FedEx

Relinquished by: Robin Fomalont	**Date:** 4-2-16	**Time:** 2:50 PM	**Received by:** Shannan Hiff	**Date:** 4/2/16	**Time:** 2:59 PM
Relinquished by: Shannan Hiff to Fed Ex	**Date:** 4-2-16	**Time:** 4:00 pm	**Received by:** 6HEATL	**Date:** 4-5-16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604072

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4/1/16
	Project Location: Aliso Canyon	Samplers: Shannon Hill,	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Jim Tang, Lucas Wallin,	
	Rotameter: HSA 1154 **Serial # :** 450122	**Expiration Date:** 3/21/17	Robin Fomalont

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
7A 17-ST-FB	"	"							Field Blank
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 2.8°C
FedEx

Relinquished by: Robin Fomalont	**Date:** 4-2-16	**Time:** 2:50pm	**Received by:**		**Date:** 4/2/16	**Time:** 2:57
Relinquished by: to FedEx	**Date:** 4-2-16	**Time:** 4:10 pm	**Received by:**	ontrac	**Date:** 4-5-16	**Time:** 1020
Relinquished by:	**Date:**	**Time:**	**Received by:**		**Date:**	**Time:**

160407Q

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4/11/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604100

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/6/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604100

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/06/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/11/2016		

FRACTION #	NAME	TEST
01A	4-ST	Modified TO-13A
02A	95-ST	Modified TO-13A
03A	103-ST-EXT	Modified TO-13A
04A	103-ST	Modified TO-13A
05A	117-ST	Modified TO-13A
06A	51-ST	Modified TO-13A
07A	53-ST	Modified TO-13A
08A	81-ST	Modified TO-13A
09A	81-ST-FB	Modified TO-13A
10A	13-ST	Modified TO-13A
11A	13-ST-D	Modified TO-13A
12A	Lab Blank	Modified TO-13A
13A	CCV	Modified TO-13A
14A	LCS	Modified TO-13A
14AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/11/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604100

Eleven PUF/XAD Cartridge-Low Volume samples were received on April 06, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/31/16.

Sampling volumes were supplied by the client. A sample volume of 6984 L was used to report sample 81-ST-FB and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

Recoveries of surrogates Benzo(a)pyrene-d12 and Fluoranthene-d10 were below specified control limits in samples 103-ST and 81-ST. Reanalysis confirmed the results

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	2.9 J	0.43 J
Naphthalene	1.0	0.15	0.30 J	0.044 J
Dimethylphthalate	5.0	0.74	1.3 J	0.19 J
di-n-Butylphthalate	5.0	0.74	0.77 J	0.11 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	8.3 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	31 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	93%	6.8 NJ
Nonanal	124-19-6	90%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	48 NJ
Decanal	112-31-2	91%	6.9 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	10 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	64 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	110 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	58%	9.2 NJ

[redacted]

Lab ID#: 1604100-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.0 J	0.71 J
Naphthalene	1.0	0.14	0.66 J	0.095 J
di-n-Butylphthalate	5.0	0.72	2.0 J	0.29 J
bis(2-Ethylhexyl)phthalate	5.0	0.72	3.4 J	0.48 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	42 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	26 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	14 NJ
Tetradecane	629-59-4	97%	14 NJ
Undecane, 2,6-dimethyl-	17301-23-4	76%	22 NJ
Dodecane, 2,6,11-trimethyl-	31295-56-4	74%	14 NJ
Pentadecane, 7-methyl-	6165-40-8	93%	32 NJ
Heneicosane	629-94-7	90%	17 NJ

[redacted]

Lab ID#: 1604100-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.14	0.32 J	0.047 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	13 NJ

[redacted]

Lab ID#: 1604100-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	7.6	1.1
1,4-Dichlorobenzene	1.0	0.15	25	3.7
Naphthalene	1.0	0.15	0.66 J	0.098 J
Phenanthrene	1.0	0.15	0.20 J	0.030 J
di-n-Butylphthalate	5.0	0.75	2.9 J	0.43 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	20 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-04A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Trisiloxane, octamethyl-	107-51-7	90%	20 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	54 NJ
Methyltris(trimethylsiloxy)silane	17928-28-8	91%	16 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	93%	320 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	17 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	90%	39 NJ
2,2,4-Trimethyl-1,3-pentanediol diisobut	6846-50-0	50%	16 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	18 NJ

[redacted]

Lab ID#: 1604100-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	14	2.1
Naphthalene	1.0	0.15	0.34 J	0.050 J
Phenanthrene	1.0	0.15	0.15 J	0.022 J
di-n-Butylphthalate	5.0	0.73	1.4 J	0.21 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
Nonanal	124-19-6	90%	12 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	110 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	12 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	180 NJ
Amylene Hydrate	75-85-4	50%	220 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	14 NJ
Hexanedioic acid, dimethyl ester	627-93-0	91%	28 NJ
4-tert-Butylcyclohexyl acetate	32210-23-4	86%	17 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.3 J	0.64 J
Naphthalene	1.0	0.15	0.20 J	0.030 J
Diethylphthalate	5.0	0.74	2.3 J	0.34 J
di-n-Butylphthalate	5.0	0.74	0.64 J	0.095 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	10 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	19 NJ
Octanal	124-13-0	86%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	23 NJ
Nonanal	124-19-6	91%	24 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	28 NJ
Undecane, 3-methylene-	71138-64-2	47%	24 NJ
Decanal	112-31-2	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	56%	37 NJ

[redacted]

Lab ID#: 1604100-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.2 J	0.60 J
Naphthalene	1.0	0.14	0.62 J	0.090 J
Phenanthrene	1.0	0.14	0.20 J	0.028 J
di-n-Butylphthalate	5.0	0.72	1.1 J	0.15 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	31 NJ
1R-.alpha.-Pinene	7785-70-8	96%	10 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	78%	9.5 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Heptane, 5-ethyl-2,2,3-trimethyl-	62199-06-8	74%	14 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	64%	10 NJ
Nonanal	124-19-6	90%	10 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	6.5 NJ
Sulfurous acid, dodecyl 2-ethylhexyl est	1000309-19-5	86%	8.4 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	14 NJ

[redacted]

Lab ID#: 1604100-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	6.8	1.0
1,4-Dichlorobenzene	1.0	0.15	2.2	0.33
Naphthalene	1.0	0.15	0.54 J	0.082 J
Diethylphthalate	5.0	0.76	8.5	1.3
Phenanthrene	1.0	0.15	0.11 J	0.017 J
di-n-Butylphthalate	5.0	0.76	1.1 J	0.17 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	83%	91 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	86 NJ
Eucalyptol	470-82-6	70%	51 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	92 NJ
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	97%	87 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	55 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	270 NJ
Amylene Hydrate	75-85-4	64%	290 NJ
4-Octene, 2,6-dimethyl-, [S-(Z)]-	62960-77-4	50%	58 NJ
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate	78-36-4	46%	57 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-09A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	20 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	9.2 NJ

[redacted]

Lab ID#: 1604100-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	12	1.8
Isophorone	1.0	0.15	0.93 J	0.14 J
Naphthalene	1.0	0.15	0.71 J	0.10 J
Phenanthrene	1.0	0.15	0.12 J	0.018 J
di-n-Butylphthalate	5.0	0.74	2.2 J	0.33 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Acetic acid, butyl ester	123-86-4	59%	35 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	72%	53 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	27 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	180 NJ
3-Octanol, 3,7-dimethyl-	78-69-3	78%	16 NJ
Nonanal	124-19-6	91%	30 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	34 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	440 NJ
Butanoic acid, butyl ester	109-21-7	64%	31 NJ

[redacted]

Lab ID#: 1604100-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	12	1.7

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604100-11A

Isophorone	1.0	0.14	0.98 J	0.14 J
Naphthalene	1.0	0.14	0.73 J	0.10 J
2-Nitroaniline	10	1.4	1.4 J	0.21 J
Phenanthrene	1.0	0.14	0.12 J	0.017 J
di-n-Butylphthalate	5.0	0.72	2.5 J	0.36 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	27 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	78%	54 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	28 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	190 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	43 NJ
Nonanal	124-19-6	91%	30 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	36 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	450 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	78%	32 NJ

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[redacted]

Lab ID#: 1604100-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040709**	**Date of Collection:**	**4/4/16 8:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 01:54 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	2.9 J	0.43 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.30 J	0.044 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	1.3 J	0.19 J
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604100-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040709**	**Date of Collection:**	**4/4/16 8:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 01:54 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.77 J	0.11 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	8.3 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	31 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	93%	6.8 NJ
Nonanal	124-19-6	90%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	48 NJ
Decanal	112-31-2	91%	6.9 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	10 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	64 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	110 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	58%	9.2 NJ

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Lab ID#: 1604100-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040709**	**Date of Collection: 4/4/16 8:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:54 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6780

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	86	10-123
Fluorene-d10	78	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	103	50-150

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Lab ID#: 1604100-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040710**	**Date of Collection:**	**4/4/16 9:14:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 02:24 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.0 J	0.71 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.66 J	0.095 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604100-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040710**	**Date of Collection: 4/4/16 9:14:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:24 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	2.0 J	0.29 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	3.4 J	0.48 J
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	42 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	14 NJ
Tetradecane	629-59-4	97%	14 NJ
Undecane, 2,6-dimethyl-	17301-23-4	76%	22 NJ
Dodecane, 2,6,11-trimethyl-	31295-56-4	74%	14 NJ
Pentadecane, 7-methyl-	6165-40-8	93%	32 NJ
Heneicosane	629-94-7	90%	17 NJ

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Lab ID#: 1604100-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040710**	**Date of Collection: 4/4/16 9:14:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:24 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	86	10-123
Fluorene-d10	77	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	105	50-150

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Lab ID#: 1604100-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040711**	**Date of Collection: 4/4/16 9:56:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:53 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.32 J	0.047 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604100-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040711**	**Date of Collection: 4/4/16 9:56:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:53 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	13 NJ

Air Sample Volume(L): 6910

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	62	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	81	10-123

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Lab ID#: 1604100-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040711**	**Date of Collection: 4/4/16 9:56:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 02:53 PM**
		Date of Extraction: 4/6/16

Surrogates	%Recovery	Method Limits
Fluorene-d10	75	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	79	50-150
Fluoranthene-d10	102	50-150

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Lab ID#: 1604100-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040712**	**Date of Collection: 4/4/16 9:46:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:23 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	7.6	1.1
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	25	3.7
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.66 J	0.098 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604100-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040712**	**Date of Collection:**	**4/4/16 9:46:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 03:23 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.20 J	0.030 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	2.9 J	0.43 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	20 NJ
Trisiloxane, octamethyl-	107-51-7	90%	20 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	54 NJ
Methyltris(trimethylsiloxy)silane	17928-28-8	91%	16 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	93%	320 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	17 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	90%	39 NJ
2,2,4-Trimethyl-1,3-pentanediol diisobut	6846-50-0	50%	16 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	18 NJ

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Lab ID#: 1604100-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040712**	**Date of Collection: 4/4/16 9:46:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:23 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6680

NJ =The identification is based on presumptive evidence; estimated value.

Q = Exceeds Quality Control limits.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	21-110
Phenol-d5	91	10-110
Nitrobenzene-d5	94	35-114
2,4,6-Tribromophenol	91	10-123
Fluorene-d10	86	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	9.8 Q	50-150
Fluoranthene-d10	18 Q	50-150

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Lab ID#: 1604100-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040713**	**Date of Collection:**	**4/4/16 11:36:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 03:53 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	14	2.1
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.34 J	0.050 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604100-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040713**	**Date of Collection: 4/4/16 11:36:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:53 PM**
		Date of Extraction: 4/6/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.15 J	0.022 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.4 J	0.21 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
Nonanal	124-19-6	90%	12 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	110 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	12 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	180 NJ
Amylene Hydrate	75-85-4	50%	220 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	14 NJ
Hexanedioic acid, dimethyl ester	627-93-0	91%	28 NJ
4-tert-Butylcyclohexyl acetate	32210-23-4	86%	17 NJ

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Lab ID#: 1604100-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040713**	**Date of Collection: 4/4/16 11:36:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 03:53 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	82	10-123
Fluorene-d10	76	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604100-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040714**	**Date of Collection: 4/4/16 1:14:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:22 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	4.3 J	0.64 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.20 J	0.030 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	2.3 J	0.34 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604100-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040714**	**Date of Collection:**	**4/4/16 1:14:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 04:22 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.64 J	0.095 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	10 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	19 NJ
Octanal	124-13-0	86%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	23 NJ
Nonanal	124-19-6	91%	24 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	28 NJ
Undecane, 3-methylene-	71138-64-2	47%	24 NJ
Decanal	112-31-2	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	56%	37 NJ

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Lab ID#: 1604100-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040714**	**Date of Collection: 4/4/16 1:14:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:22 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6740

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	87	35-114
2,4,6-Tribromophenol	82	10-123
Fluorene-d10	78	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	83	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1604100-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040715**	**Date of Collection: 4/4/16 2:53:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:52 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	4.2 J	0.60 J
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.62 J	0.090 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604100-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040715**	**Date of Collection: 4/4/16 2:53:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:52 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.20 J	0.028 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.1 J	0.15 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	31 NJ
1R-.alpha.-Pinene	7785-70-8	96%	10 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	78%	9.5 NJ
Heptane, 5-ethyl-2,2,3-trimethyl-	62199-06-8	74%	14 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	64%	10 NJ
Nonanal	124-19-6	90%	10 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	6.5 NJ
Sulfurous acid, dodecyl 2-ethylhexyl est	1000309-19-5	86%	8.4 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	14 NJ

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Lab ID#: 1604100-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040715**	**Date of Collection: 4/4/16 2:53:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 04:52 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6930

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	86	10-123
Fluorene-d10	80	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	83	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604100-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040716**	**Date of Collection: 4/4/16 3:19:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:21 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	6.8	1.0
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	2.2	0.33
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.54 J	0.082 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	8.5	1.3
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604100-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040716**	**Date of Collection:**	**4/4/16 3:19:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 05:21 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.11 J	0.017 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	1.1 J	0.17 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	83%	91 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	86 NJ
Eucalyptol	470-82-6	70%	51 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	92 NJ
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	97%	87 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	55 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	270 NJ
Amylene Hydrate	75-85-4	64%	290 NJ
4-Octene, 2,6-dimethyl-, [S-(Z)]-	62960-77-4	50%	58 NJ
1,5-Dimethyl-1-vinyl-4-hexenyl butyrate	78-36-4	46%	57 NJ

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Lab ID#: 1604100-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040716**	**Date of Collection: 4/4/16 3:19:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:21 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6580

NJ =The identification is based on presumptive evidence; estimated value.

Q = Exceeds Quality Control limits.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	82	21-110
Phenol-d5	90	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	80	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	12 Q	50-150
Fluoranthene-d10	22 Q	50-150

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Lab ID#: 1604100-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040708**	**Date of Collection: 4/4/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:25 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604100-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040708**	**Date of Collection: 4/4/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 01:25 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	20 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	9.2 NJ

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	39	21-110
Phenol-d5	48	10-110
Nitrobenzene-d5	51	35-114
2,4,6-Tribromophenol	54	10-123

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Lab ID#: 1604100-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040708**	**Date of Collection:**	**4/4/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 01:25 PM**
		Date of Extraction:	**4/6/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	60	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	91	50-150

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Lab ID#: 1604100-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040717**	**Date of Collection: 4/4/16 4:54:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:51 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	12	1.8
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	0.93 J	0.14 J
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.71 J	0.10 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604100-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040717**	**Date of Collection:**	**4/4/16 4:54:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 05:51 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.12 J	0.018 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	2.2 J	0.33 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Acetic acid, butyl ester	123-86-4	59%	35 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	72%	53 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	27 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	180 NJ
3-Octanol, 3,7-dimethyl-	78-69-3	78%	16 NJ
Nonanal	124-19-6	91%	30 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	34 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	440 NJ
Butanoic acid, butyl ester	109-21-7	64%	31 NJ

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Lab ID#: 1604100-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040717**	**Date of Collection: 4/4/16 4:54:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 05:51 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6720

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	21-110
Phenol-d5	86	10-110
Nitrobenzene-d5	92	35-114
2,4,6-Tribromophenol	83	10-123
Fluorene-d10	80	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604100-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040718**	**Date of Collection: 4/4/16 4:55:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:21 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	12	1.7
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	0.98 J	0.14 J
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.73 J	0.10 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	1.4 J	0.21 J
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604100-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040718**	**Date of Collection:**	**4/4/16 4:55:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 06:21 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.12 J	0.017 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	2.5 J	0.36 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	27 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	30 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	78%	54 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	28 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	190 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	43 NJ
Nonanal	124-19-6	91%	30 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	83%	36 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	450 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	78%	32 NJ

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[redacted]

Lab ID#: 1604100-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040718**	**Date of Collection: 4/4/16 4:55:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:21 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6900

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	21-110
Phenol-d5	87	10-110
Nitrobenzene-d5	91	35-114
2,4,6-Tribromophenol	89	10-123
Fluorene-d10	79	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	83	50-150
Fluoranthene-d10	104	50-150

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[redacted]

Lab ID#: 1604100-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:25 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604100-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:25 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	29 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	5.2 NJ
2H-Benzimidazol-2-one, 1,3-dihydro-5-met	5400-75-9	59%	6.1 NJ

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	62	21-110
Phenol-d5	76	10-110

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[redacted]

Lab ID#: 1604100-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:25 PM**	
		Date of Extraction: 4/6/16	

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	70	10-123
Fluorene-d10	77	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	99	50-150

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[redacted]

Lab ID#: 1604100-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 10:57 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	110
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	105
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	102
1,2-Dichlorobenzene	101
2-Methylphenol (o-Cresol)	108
bis(2-Chloroisopropyl) Ether	109
N-Nitroso-di-n-propylamine	113
4-Methylphenol/3-Methylphenol	106
Hexachloroethane	106
Nitrobenzene	108
Isophorone	108
2-Nitrophenol	104
2,4-Dimethylphenol	103
Benzoic Acid	94
bis(2-Chloroethoxy) Methane	105
2,4-Dichlorophenol	105
1,2,4-Trichlorobenzene	99
Naphthalene	103
4-Chloroaniline	103
Hexachlorobutadiene	99
4-Chloro-3-methylphenol	115
2-Methylnaphthalene	104
Hexachlorocyclopentadiene	100
2,4,6-Trichlorophenol	102
2,4,5-Trichlorophenol	110
2-Chloronaphthalene	99
2-Nitroaniline	114
Dimethylphthalate	105
Acenaphthylene	102
2,6-Dinitrotoluene	106
3-Nitroaniline	109
Acenaphthene	102
2,4-Dinitrophenol	76
4-Nitrophenol	106
2,4-Dinitrotoluene	112
Dibenzofuran	105
Diethylphthalate	109
Fluorene	104
4-Chlorophenyl-phenyl Ether	102

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[redacted]

Lab ID#: 1604100-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 10:57 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	107
4,6-Dinitro-2-methylphenol	91
N-Nitrosodiphenylamine	96
4-Bromophenyl-phenyl Ether	99
Hexachlorobenzene	95
Pentachlorophenol	78
Phenanthrene	102
Anthracene	103
di-n-Butylphthalate	107
Fluoranthene	106
Pyrene	110
Butylbenzylphthalate	115
3,3'-Dichlorobenzidine	92
Chrysene	102
Benzo(a)anthracene	104
bis(2-Ethylhexyl)phthalate	112
Di-n-Octylphthalate	120
Benzo(b)fluoranthene	110
Benzo(k)fluoranthene	109
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	98
Dibenz(a,h)anthracene	100
Benzo(g,h,i)perylene	99

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	100	21-110
Phenol-d5	104	10-110
Nitrobenzene-d5	106	35-114
2,4,6-Tribromophenol	110	10-123
Fluorene-d10	104	60-120
Pyrene-d10	109	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	107	50-150

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[redacted]

Lab ID#: 1604100-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:26 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
Phenol	78	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	67	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	83	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	73	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	91	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	79	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	62	10-80
2,4-Dinitrotoluene	89	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604100-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:26 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	28	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	94	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	74	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	99	50-150

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[redacted]

Lab ID#: 1604100-14AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:56 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
Phenol	78	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	68	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	85	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	74	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	89	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	80	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	89	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604100-14AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:56 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	21	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	96	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	21-110
Phenol-d5	73	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	74	60-120
Pyrene-d10	83	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	96	50-150

AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/4/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg/Hovaness Dekeyan JSC	
	Rotameter: ShoRate 1 15lpm Serial # : 442371	Expiration Date: 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
1A 4/4/16 Residence ID Number – ST (19-ST) 4-ST	Sorbent Tube	SVOCs TO-13A	4.8	4.8	~~0755~~				MB0225LV X16 0228 X16 0229 ~4ft high Bkyd Area next to Pool
			Avg: 4.8		0825	0831	1413	6782	
2A 95-ST			4.8	5.1	0943	9:14	1411	6984	MB0225LV X16 0228 0229 ~4½ ft next to Pool, 2nd Floor, Back
			Avg: 4.95						
3A 103-ST-EXT			4.8	~~4.9~~ 5.1 JSC	1040	~~9:36~~ 9:46			Backyard, by table under overhang. ~4ft tall.
			Avg: ~~4.95~~ 5.0				1396	6910	
4A 103-ST			4.8	4.9	1049	9.46	1377	6678	on Table Bkyd Area ~4ft
			Avg: 4.85						
5A 117-ST	↓	↓	4.8	4.9	1204	1136	1912	6848	MB0225LV Near Kitchen Table ~4ft
			Avg: 4.85						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y (N) None Temp 10.8°C
Fed Ex SDR

Relinquished by: Camilla Westberg	Date: 4/5/16	Time: 1735	Received by: [illegible]	Date: 4/5/16	Time: 17:35
Relinquished by: [illegible]	Date: 4/5/16	Time: 1800	Received by: [illegible]	Date: 4/5/16	Time: 1800
Relinquished by: [illegible]	Date: 4/5/16	Time: 1800	Received by: Andrea Augustin EATL	Date: 4/6/16	Time: 1020

160410O

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 4/4/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg / Hovanes Dekeyan	
	Rotameter: ShoRate 1-15 lpm **Serial # :** 4423771	**Expiration Date:** 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
06A ✓ 51-ST	↓	↓	4.8	4.9	1404	1314	1390	6741.5	~4 ft Kitchen Counter
			Avg: 4.85						
07A ✓ 53-ST			4.8	5.0	1518	1453	1415	6933.5	Kitchen table. ~4.5ft tall. West side of home
			Avg: 4.9						
08A ✓ 81-ST			4.8	4.8	1629	1519	1370	6576	Next to kitchen counter, ~5ft tall
			Avg: 4.8						
09A ✓ 81-ST-FB							0	0	Blank
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 10.8°C
Fed Ex SDR

Relinquished by: [signature]	**Date:** 4/5/16	**Time:** 1732	**Received by:** Meredith	**Date:** 4/5/16	**Time:** 1732
Relinquished by: [signature]	**Date:** 4/5/16	**Time:** 1800	**Received by:** [signature]	**Date:** 4/5/16	**Time:** 1800
Relinquished by: [signature] to fedex	**Date:** 4/5/16	**Time:** 1800	**Received by:** Andrea Augustin EATL	**Date:** 4/6/16	**Time:** 1020

1604100

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/4/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westbrook/Horances Dekeyan
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
10A ✓ Residence ID Number – ST ~~19-ST~~ 13-ST	Sorbent Tube	SVOCs TO-13A	4.8	4.8	1735	1654	1399	6715	Dining Room Table – next to. ~4.5ft tall. NW area of home
			Avg: 4.8						
1A ✓ 13-ST-D	"	↓	4.8	5.1	1741	1655	1394	6900	Dining Room Table – next to ~4.5 ft tall. NW area of home
			Avg: 4.95						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
N (None) Temp 10.8°C
Fed Ex SDR

Relinquished by: Camilla Westbrook	Date: 4/5/16	Time: 17:35	Received by: Marechell	Date: 4/5/16	Time: 1735
Relinquished by: [illegible]	Date: 4/5/16	Time: 18:00	Received by: [illegible]	Date: 4/5/16	Time: 1800
Relinquished by: [illegible] to Fedex	Date: 4/5/16	Time: 1800	Received by: Andrea Magnotti EATL	Date: 4/6/16	Time: 1020

1604100

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4/11/2016

Meredith Church

Leighton Consulting, Inc.

17781 Cowan

Irvine CA 92614

Project Name:

Project #: 603287048

Workorder #: 1604101

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/6/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604101

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/06/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/11/2016		

FRACTION #	NAME	TEST
01A	3-ST	Modified TO-13A
02A	3-ST-D	Modified TO-13A
03A	6-ST	Modified TO-13A
04A	42-ST	Modified TO-13A
05A	70-ST	Modified TO-13A
06A	70-ST-EXT	Modified TO-13A
07A	58-ST	Modified TO-13A
08A	60-ST	Modified TO-13A
09A	60-ST-FB	Modified TO-13A
10A	20-ST	Modified TO-13A
11A	5-ST	Modified TO-13A
12A	Lab Blank	Modified TO-13A
12B	Lab Blank	Modified TO-13A
13A	CCV	Modified TO-13A
13B	CCV	Modified TO-13A
14A	LCS	Modified TO-13A
14AA	LCSD	Modified TO-13A
14B	LCS	Modified TO-13A
14BB	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/11/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604101

Eleven PUF/XAD Cartridge-Low Volume samples were received on April 06, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/31/16.

Sampling volumes were supplied by the client. A sample volume of 8085 L was used to report sample 60-ST-FB and the Lab Blanks.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

The recovery for Pentachlorophenol in the LCS and LCSD analyzed on 4/7/16 was outside the laboratory control limits. Historically derived control limits for Pentachlorophenol indicate a trend

toward inconsistent rates of recovery from the PUF/XAD media. Pentachlorophenol results are qualified as estimated values. Due to the nature of PUF/XAD extraction, it is not possible to re-extract the associated samples. All other LCS recoveries were within allowed limits.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	8.1	1.2
1,4-Dichlorobenzene	1.0	0.14	1.2	0.16
Isophorone	1.0	0.14	1.1	0.16
Naphthalene	1.0	0.14	1.8	0.26
2-Methylnaphthalene	1.0	0.14	0.66 J	0.093 J
Phenanthrene	1.0	0.14	0.093 J	0.013 J
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	47 NJ
Nonanal	124-19-6	90%	36 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	78%	27 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	16 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	24 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	26 NJ
Propanoic acid, 2-methyl-, 1-(1,1-dimeth	74381-40-1	72%	87 NJ

[redacted]

Lab ID#: 1604101-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	8.1	1.2
1,4-Dichlorobenzene	1.0	0.14	1.1	0.16
Isophorone	1.0	0.14	1.1	0.16
Naphthalene	1.0	0.14	1.8	0.25
2-Methylnaphthalene	1.0	0.14	0.60 J	0.085 J
Phenanthrene	1.0	0.14	0.097 J	0.014 J
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	46 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	46%	17 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	32 NJ
Nonanal	124-19-6	90%	28 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	56%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	100 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	23 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	28 NJ

[redacted]

Lab ID#: 1604101-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	10	1.5
Naphthalene	1.0	0.15	4.1	0.61
2-Methylnaphthalene	1.0	0.15	0.45 J	0.066 J
Dimethylphthalate	5.0	0.74	0.79 J	0.12 J
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	23 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	34 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	36 NJ
Undecane, 4,7-dimethyl-	17301-32-5	50%	22 NJ
Nonanal	124-19-6	90%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	42 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	39 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	56%	17 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	25 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetradecane	629-59-4	97%	20 NJ

[redacted]

Lab ID#: 1604101-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	16	2.4
1,4-Dichlorobenzene	1.0	0.15	1.4	0.20
Naphthalene	1.0	0.15	1.5	0.22
2-Methylnaphthalene	1.0	0.15	0.58 J	0.086 J
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	50 NJ
Camphene	79-92-5	97%	21 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	30 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	75 NJ
Pentane, 3-ethyl-2,2-dimethyl-	16747-32-3	50%	17 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	72%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	23 NJ
Methyl salicylate	119-36-8	97%	20 NJ

[redacted]

Lab ID#: 1604101-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	4.3 J	0.65 J
Naphthalene	1.0	0.15	0.23 J	0.035 J
di-n-Butylphthalate	5.0	0.76	1.6 J	0.24 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-05A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	31 NJ
Nonanal	124-19-6	90%	19 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	11 NJ
Decanal	112-31-2	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	9.3 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	12 NJ
1-Decene	872-05-9	94%	8.0 NJ

[redacted]

Lab ID#: 1604101-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
bis(2-Ethylhexyl)phthalate	5.0	0.74	2.1 J	0.30 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	33 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	6.6 NJ

[redacted]

Lab ID#: 1604101-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	19	2.7
1,4-Dichlorobenzene	1.0	0.14	0.96 J	0.14 J
Naphthalene	1.0	0.14	15	2.2
2-Methylnaphthalene	1.0	0.14	1.2	0.17

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-07A

Phenanthrene	1.0	0.14	0.12 J	0.018 J
di-n-Butylphthalate	5.0	0.72	2.7 J	0.39 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Propanol, 1-butoxy-	5131-66-8	90%	83 NJ
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	78%	60 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	290 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	87 NJ
Octane, 2,6-dimethyl-	2051-30-1	72%	65 NJ
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	94%	140 NJ
Nonanal	124-19-6	50%	47 NJ
Hexane, 2,2,5,5-tetramethyl-	1071-81-4	59%	70 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	72%	240 NJ
Bacchotricuneatin c	66563-30-2	94%	120 NJ

[redacted]

Lab ID#: 1604101-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.62	5.2	0.65
1,4-Dichlorobenzene	1.0	0.12	7.6	0.94
Naphthalene	1.0	0.12	0.66 J	0.081 J
Fluorene	1.0	0.12	0.19 J	0.023 J
Phenanthrene	1.0	0.12	0.27 J	0.033 J
di-n-Butylphthalate	5.0	0.62	3.2 J	0.39 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
Ethanol, 2-butoxy-	111-76-2	58%	17 NJ
3-Methoxy-3-methylbutanol	56539-66-3	78%	43 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	86%	13 NJ
1-Hexanol, 2-ethyl-	104-76-7	50%	8.1 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-08A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Nonanal	124-19-6	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	9.0 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	59%	11 NJ
Butanoic acid, butyl ester	109-21-7	72%	12 NJ

[redacted]

Lab ID#: 1604101-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Pyrene	1.0	0.12	0.067 J	0.0083 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	31 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	14 NJ

[redacted]

Lab ID#: 1604101-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	7.8	1.1
Naphthalene	1.0	0.14	1.3	0.18
2-Methylnaphthalene	1.0	0.14	0.72 J	0.10 J
Diethylphthalate	5.0	0.71	5.1	0.72
Phenanthrene	1.0	0.14	0.14 J	0.020 J
di-n-Butylphthalate	5.0	0.71	0.94 J	0.13 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
Ethanol, 2-butoxy-	111-76-2	91%	40 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604101-10A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	84 NJ
Nonanal	124-19-6	90%	41 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	180 NJ
.alpha.-D-Xylofuranoside, methyl 2,3-di-	15821-56-4	39%	20 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	500 NJ
Amylene Hydrate	75-85-4	64%	390 NJ
1-Propanol, 2,2-dimethyl-	75-84-3	47%	20 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	20 NJ

[redacted]

Lab ID#: 1604101-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	14	2.0
1,4-Dichlorobenzene	1.0	0.14	0.54 J	0.078 J
Naphthalene	1.0	0.14	2.1	0.30
Phenanthrene	1.0	0.14	0.10 J	0.015 J
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	32 NJ
Benzaldehyde	100-52-7	95%	13 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	26 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	13 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	42%	26 NJ
2-Hexanol, 2-methyl-	625-23-0	50%	15 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ
Tetradecane	629-59-4	97%	20 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	64%	21 NJ

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Lab ID#: 1604101-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040719**	**Date of Collection: 4/4/16 8:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:50 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	8.1	1.2
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	1.2	0.16
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	1.1	0.16
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.8	0.26
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.66 J	0.093 J
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604101-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040719**	**Date of Collection: 4/4/16 8:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:50 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.093 J	0.013 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	27 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	47 NJ
Nonanal	124-19-6	90%	36 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	78%	27 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	16 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	24 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	26 NJ
Propanoic acid, 2-methyl-, 1-(1,1-dimeth	74381-40-1	72%	87 NJ

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Lab ID#: 1604101-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040719**	**Date of Collection: 4/4/16 8:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 06:50 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 7020

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	75	21-110
Phenol-d5	85	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	76	60-120
Pyrene-d10	72	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	83	50-150

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Lab ID#: 1604101-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040819**	**Date of Collection: 4/4/16 8:24:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 08:11 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	8.1	1.2
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	1.1	0.16
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	1.1	0.16
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.8	0.25
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.60 J	0.085 J
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604101-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040819**	**Date of Collection:**	**4/4/16 8:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/8/16 08:11 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.097 J	0.014 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	46 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	46%	17 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	97%	32 NJ
Nonanal	124-19-6	90%	28 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	56%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	100 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	23 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	28 NJ

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Lab ID#: 1604101-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040819**	**Date of Collection: 4/4/16 8:24:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 08:11 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 7020

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	75	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	73	60-120
Pyrene-d10	72	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604101-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040721**	**Date of Collection: 4/4/16 8:50:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:50 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	10	1.5
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	4.1	0.61
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.45 J	0.066 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	0.79 J	0.12 J
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604101-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040721**	**Date of Collection: 4/4/16 8:50:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:50 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	23 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	34 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	36 NJ
Undecane, 4,7-dimethyl-	17301-32-5	50%	22 NJ
Nonanal	124-19-6	90%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	42 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	39 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	56%	17 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	25 NJ
Tetradecane	629-59-4	97%	20 NJ

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Lab ID#: 1604101-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040721**	**Date of Collection: 4/4/16 8:50:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 07:50 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6730

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	83	10-123
Fluorene-d10	78	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	103	50-150

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Lab ID#: 1604101-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040722**	**Date of Collection: 4/4/16 10:07:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:19 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	16	2.4
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	1.4	0.20
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.5	0.22
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.58 J	0.086 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604101-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040722**	**Date of Collection: 4/4/16 10:07:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:19 PM**
		Date of Extraction: 4/6/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	1.5 J	0.22 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	50 NJ
Camphene	79-92-5	97%	21 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	30 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	75 NJ
Pentane, 3-ethyl-2,2-dimethyl-	16747-32-3	50%	17 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	72%	15 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	23 NJ
Methyl salicylate	119-36-8	97%	20 NJ

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Lab ID#: 1604101-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040722**	**Date of Collection: 4/4/16 10:07:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:19 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6770

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	71	60-120
Pyrene-d10	73	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	88	50-150

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Lab ID#: 1604101-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040723**	**Date of Collection:**	**4/4/16 10:47:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 08:49 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	4.3 J	0.65 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.23 J	0.035 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604101-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040723**	**Date of Collection: 4/4/16 10:47:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:49 PM**
		Date of Extraction: 4/6/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	1.6 J	0.24 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	31 NJ
Nonanal	124-19-6	90%	19 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	68%	11 NJ
Decanal	112-31-2	91%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	13 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	9.3 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	12 NJ
1-Decene	872-05-9	94%	8.0 NJ

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Lab ID#: 1604101-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040723**	**Date of Collection: 4/4/16 10:47:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 08:49 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6600

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	54	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	64	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	67	60-120
Pyrene-d10	71	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	91	50-150

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Lab ID#: 1604101-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040724**	**Date of Collection:**	**4/4/16 10:54:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 09:18 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604101-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040724**	**Date of Collection:**	**4/4/16 10:54:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 09:18 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	2.1 J	0.30 J
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	33 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	87%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	6.6 NJ

Air Sample Volume(L): 6800

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	81	10-110

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Lab ID#: 1604101-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040724**	**Date of Collection: 4/4/16 10:54:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 09:18 PM**
		Date of Extraction: 4/6/16

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	77	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	93	50-150

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Lab ID#: 1604101-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040725**	**Date of Collection: 4/4/16 12:39:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 09:48 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	19	2.7
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	0.96 J	0.14 J
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	15	2.2
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	1.2	0.17
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604101-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040725**	**Date of Collection: 4/4/16 12:39:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 09:48 PM**
		Date of Extraction: 4/6/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.12 J	0.018 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	2.7 J	0.39 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Propanol, 1-butoxy-	5131-66-8	90%	83 NJ
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	78%	60 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	290 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	87 NJ
Octane, 2,6-dimethyl-	2051-30-1	72%	65 NJ
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	94%	140 NJ
Nonanal	124-19-6	50%	47 NJ
Hexane, 2,2,5,5-tetramethyl-	1071-81-4	59%	70 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	72%	240 NJ
Bacchotricuneatin c	66563-30-2	94%	120 NJ

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Lab ID#: 1604101-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040725**	**Date of Collection: 4/4/16 12:39:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 09:48 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 6960

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	21-110
Phenol-d5	87	10-110
Nitrobenzene-d5	87	35-114
2,4,6-Tribromophenol	91	10-123
Fluorene-d10	86	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	103	50-150

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Lab ID#: 1604101-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040726**	**Date of Collection: 4/4/16 1:31:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 10:18 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.62	5.2	0.65
bis(2-Chloroethyl) Ether	1.0	0.12	Not Detected	Not Detected
2-Chlorophenol	5.0	0.62	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.12	7.6	0.94
1,2-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.12	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.12	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.62	Not Detected	Not Detected
Hexachloroethane	1.0	0.12	Not Detected	Not Detected
Nitrobenzene	1.0	0.12	Not Detected	Not Detected
Isophorone	1.0	0.12	Not Detected	Not Detected
2-Nitrophenol	5.0	0.62	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.62	Not Detected	Not Detected
Benzoic Acid	30	3.7	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.12	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.62	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.12	Not Detected	Not Detected
Naphthalene	1.0	0.12	0.66 J	0.081 J
4-Chloroaniline	10	1.2	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.12	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.62	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.12	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.5	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.62	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.2	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.12	Not Detected	Not Detected
2-Nitroaniline	10	1.2	Not Detected	Not Detected
Dimethylphthalate	5.0	0.62	Not Detected	Not Detected
Acenaphthylene	1.0	0.12	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
3-Nitroaniline	10	1.2	Not Detected	Not Detected
Acenaphthene	1.0	0.12	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.9	Not Detected	Not Detected
4-Nitrophenol	40	4.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
Dibenzofuran	1.0	0.12	Not Detected	Not Detected
Diethylphthalate	5.0	0.62	Not Detected	Not Detected
Fluorene	1.0	0.12	0.19 J	0.023 J
4-Chlorophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected

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Lab ID#: 1604101-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040726**	**Date of Collection:**	**4/4/16 1:31:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 10:18 PM**
		Date of Extraction:	**4/6/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.2	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.2	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.2	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.12	Not Detected	Not Detected
Pentachlorophenol	80	9.9	Not Detected	Not Detected
Phenanthrene	1.0	0.12	0.27 J	0.033 J
Anthracene	1.0	0.12	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.62	3.2 J	0.39 J
Fluoranthene	1.0	0.12	Not Detected	Not Detected
Pyrene	1.0	0.12	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.62	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.5	Not Detected	Not Detected
Chrysene	1.0	0.12	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.12	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.62	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.62	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.12	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.12	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.12	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.12	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
Ethanol, 2-butoxy-	111-76-2	58%	17 NJ
3-Methoxy-3-methylbutanol	56539-66-3	78%	43 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	86%	13 NJ
1-Hexanol, 2-ethyl-	104-76-7	50%	8.1 NJ
Nonanal	124-19-6	91%	12 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	9.0 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	59%	11 NJ
Butanoic acid, butyl ester	109-21-7	72%	12 NJ

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Lab ID#: 1604101-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040726**	**Date of Collection: 4/4/16 1:31:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 10:18 PM**
		Date of Extraction: 4/6/16

Air Sample Volume(L): 8080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	75	21-110
Phenol-d5	85	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	87	10-123
Fluorene-d10	79	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	102	50-150

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Lab ID#: 1604101-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040707**	**Date of Collection: 4/4/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:55 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.12	Not Detected	Not Detected
2-Chlorophenol	5.0	0.62	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.12	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.12	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.62	Not Detected	Not Detected
Hexachloroethane	1.0	0.12	Not Detected	Not Detected
Nitrobenzene	1.0	0.12	Not Detected	Not Detected
Isophorone	1.0	0.12	Not Detected	Not Detected
2-Nitrophenol	5.0	0.62	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.62	Not Detected	Not Detected
Benzoic Acid	30	3.7	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.12	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.62	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.12	Not Detected	Not Detected
Naphthalene	1.0	0.12	Not Detected	Not Detected
4-Chloroaniline	10	1.2	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.12	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.62	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.12	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.5	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.62	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.2	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.12	Not Detected	Not Detected
2-Nitroaniline	10	1.2	Not Detected	Not Detected
Dimethylphthalate	5.0	0.62	Not Detected	Not Detected
Acenaphthylene	1.0	0.12	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
3-Nitroaniline	10	1.2	Not Detected	Not Detected
Acenaphthene	1.0	0.12	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.9	Not Detected	Not Detected
4-Nitrophenol	40	4.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
Dibenzofuran	1.0	0.12	Not Detected	Not Detected
Diethylphthalate	5.0	0.62	Not Detected	Not Detected
Fluorene	1.0	0.12	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected

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Lab ID#: 1604101-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040707**	**Date of Collection: 4/4/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:55 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.2	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.2	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.2	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.12	Not Detected	Not Detected
Pentachlorophenol	80	9.9	Not Detected	Not Detected
Phenanthrene	1.0	0.12	Not Detected	Not Detected
Anthracene	1.0	0.12	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.62	Not Detected	Not Detected
Fluoranthene	1.0	0.12	Not Detected	Not Detected
Pyrene	1.0	0.12	0.067 J	0.0083 J
Butylbenzylphthalate	5.0	0.62	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.5	Not Detected	Not Detected
Chrysene	1.0	0.12	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.12	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.62	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.62	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.12	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.12	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.12	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.12	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	31 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	14 NJ

Air Sample Volume(L): 8080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	78	10-123

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Lab ID#: 1604101-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040707**	**Date of Collection:**	**4/4/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/7/16 12:55 PM**
		Date of Extraction:	**4/6/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	77	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	78	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604101-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040812**	**Date of Collection: 4/4/16 2:55:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 01:27 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	7.8	1.1
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.2	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.3	0.18
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.72 J	0.10 J
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	5.1	0.72
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604101-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040812**	**Date of Collection:**	**4/4/16 2:55:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/8/16 01:27 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.14 J	0.020 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	0.94 J	0.13 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
Ethanol, 2-butoxy-	111-76-2	91%	40 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	84 NJ
Nonanal	124-19-6	90%	41 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	180 NJ
.alpha.-D-Xylofuranoside, methyl 2,3-di-	15821-56-4	39%	20 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	500 NJ
Amylene Hydrate	75-85-4	64%	390 NJ
1-Propanol, 2,2-dimethyl-	75-84-3	47%	20 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	20 NJ

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Lab ID#: 1604101-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040812**	**Date of Collection: 4/4/16 2:55:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 01:27 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 7050

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	74	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	78	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604101-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040813**	**Date of Collection: 4/4/16 4:48:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 01:56 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	14	2.0
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	0.54 J	0.078 J
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	2.1	0.30
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604101-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040813**	**Date of Collection:**	**4/4/16 4:48:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/8/16 01:56 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.10 J	0.015 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	1.9 J	0.27 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	32 NJ
Benzaldehyde	100-52-7	95%	13 NJ
1-Hexanol, 2-ethyl-	104-76-7	72%	26 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	13 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	42%	26 NJ
2-Hexanol, 2-methyl-	625-23-0	50%	15 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ
Tetradecane	629-59-4	97%	20 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	64%	21 NJ

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Lab ID#: 1604101-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040813**	**Date of Collection: 4/4/16 4:48:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 01:56 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6990

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	87	10-123
Fluorene-d10	76	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604101-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:25 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.12	Not Detected	Not Detected
2-Chlorophenol	5.0	0.62	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.12	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.12	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.62	Not Detected	Not Detected
Hexachloroethane	1.0	0.12	Not Detected	Not Detected
Nitrobenzene	1.0	0.12	Not Detected	Not Detected
Isophorone	1.0	0.12	Not Detected	Not Detected
2-Nitrophenol	5.0	0.62	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.62	Not Detected	Not Detected
Benzoic Acid	30	3.7	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.12	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.62	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.12	Not Detected	Not Detected
Naphthalene	1.0	0.12	Not Detected	Not Detected
4-Chloroaniline	10	1.2	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.12	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.62	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.12	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.5	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.62	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.2	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.12	Not Detected	Not Detected
2-Nitroaniline	10	1.2	Not Detected	Not Detected
Dimethylphthalate	5.0	0.62	Not Detected	Not Detected
Acenaphthylene	1.0	0.12	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
3-Nitroaniline	10	1.2	Not Detected	Not Detected
Acenaphthene	1.0	0.12	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.9	Not Detected	Not Detected
4-Nitrophenol	40	4.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
Dibenzofuran	1.0	0.12	Not Detected	Not Detected
Diethylphthalate	5.0	0.62	Not Detected	Not Detected
Fluorene	1.0	0.12	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected

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Lab ID#: 1604101-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:25 PM**	
		Date of Extraction: 4/6/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.2	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.2	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.2	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.12	Not Detected	Not Detected
Pentachlorophenol	80	9.9	Not Detected	Not Detected
Phenanthrene	1.0	0.12	Not Detected	Not Detected
Anthracene	1.0	0.12	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.62	Not Detected	Not Detected
Fluoranthene	1.0	0.12	Not Detected	Not Detected
Pyrene	1.0	0.12	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.62	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.5	Not Detected	Not Detected
Chrysene	1.0	0.12	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.12	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.62	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.62	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.12	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.12	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.12	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.12	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	29 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	5.2 NJ
2H-Benzimidazol-2-one, 1,3-dihydro-5-met	5400-75-9	59%	6.1 NJ

Air Sample Volume(L): 8080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	62	21-110
Phenol-d5	76	10-110

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Lab ID#: 1604101-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 12:25 PM**	
		Date of Extraction: 4/6/16	

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	70	10-123
Fluorene-d10	77	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604101-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040809**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 11:58 AM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.12	Not Detected	Not Detected
2-Chlorophenol	5.0	0.62	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.12	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.62	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.12	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.12	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.62	Not Detected	Not Detected
Hexachloroethane	1.0	0.12	Not Detected	Not Detected
Nitrobenzene	1.0	0.12	Not Detected	Not Detected
Isophorone	1.0	0.12	Not Detected	Not Detected
2-Nitrophenol	5.0	0.62	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.62	Not Detected	Not Detected
Benzoic Acid	30	3.7	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.12	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.62	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.12	Not Detected	Not Detected
Naphthalene	1.0	0.12	Not Detected	Not Detected
4-Chloroaniline	10	1.2	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.12	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.62	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.12	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.5	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.62	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.2	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.12	Not Detected	Not Detected
2-Nitroaniline	10	1.2	Not Detected	Not Detected
Dimethylphthalate	5.0	0.62	Not Detected	Not Detected
Acenaphthylene	1.0	0.12	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
3-Nitroaniline	10	1.2	Not Detected	Not Detected
Acenaphthene	1.0	0.12	Not Detected	Not Detected
2,4-Dinitrophenol	40	4.9	Not Detected	Not Detected
4-Nitrophenol	40	4.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.62	Not Detected	Not Detected
Dibenzofuran	1.0	0.12	Not Detected	Not Detected
Diethylphthalate	5.0	0.62	Not Detected	Not Detected
Fluorene	1.0	0.12	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected

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Lab ID#: 1604101-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040809**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 11:58 AM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.2	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.2	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.2	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.12	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.12	Not Detected	Not Detected
Pentachlorophenol	80	9.9	Not Detected	Not Detected
Phenanthrene	1.0	0.12	Not Detected	Not Detected
Anthracene	1.0	0.12	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.62	Not Detected	Not Detected
Fluoranthene	1.0	0.12	Not Detected	Not Detected
Pyrene	1.0	0.12	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.62	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.5	Not Detected	Not Detected
Chrysene	1.0	0.12	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.12	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.62	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.62	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.12	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.12	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.12	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.12	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.12	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	7.4 NJ

Air Sample Volume(L): 8080

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	31	21-110
Phenol-d5	51	10-110
Nitrobenzene-d5	58	35-114
2,4,6-Tribromophenol	39	10-123
Fluorene-d10	66	60-120

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[redacted]

Lab ID#: 1604101-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040809**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 11:58 AM**	
		Date of Extraction: 4/7/16	

Surrogates	%Recovery	Method Limits
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	92	50-150

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[redacted]

Lab ID#: 1604101-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 10:57 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	110
bis(2-Chloroethyl) Ether	103
2-Chlorophenol	105
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	102
1,2-Dichlorobenzene	101
2-Methylphenol (o-Cresol)	108
bis(2-Chloroisopropyl) Ether	109
N-Nitroso-di-n-propylamine	113
4-Methylphenol/3-Methylphenol	106
Hexachloroethane	106
Nitrobenzene	108
Isophorone	108
2-Nitrophenol	104
2,4-Dimethylphenol	103
Benzoic Acid	94
bis(2-Chloroethoxy) Methane	105
2,4-Dichlorophenol	105
1,2,4-Trichlorobenzene	99
Naphthalene	103
4-Chloroaniline	103
Hexachlorobutadiene	99
4-Chloro-3-methylphenol	115
2-Methylnaphthalene	104
Hexachlorocyclopentadiene	100
2,4,6-Trichlorophenol	102
2,4,5-Trichlorophenol	110
2-Chloronaphthalene	99
2-Nitroaniline	114
Dimethylphthalate	105
Acenaphthylene	102
2,6-Dinitrotoluene	106
3-Nitroaniline	109
Acenaphthene	102
2,4-Dinitrophenol	76
4-Nitrophenol	106
2,4-Dinitrotoluene	112
Dibenzofuran	105
Diethylphthalate	109
Fluorene	104
4-Chlorophenyl-phenyl Ether	102

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[redacted]

Lab ID#: 1604101-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 10:57 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	107
4,6-Dinitro-2-methylphenol	91
N-Nitrosodiphenylamine	96
4-Bromophenyl-phenyl Ether	99
Hexachlorobenzene	95
Pentachlorophenol	78
Phenanthrene	102
Anthracene	103
di-n-Butylphthalate	107
Fluoranthene	106
Pyrene	110
Butylbenzylphthalate	115
3,3'-Dichlorobenzidine	92
Chrysene	102
Benzo(a)anthracene	104
bis(2-Ethylhexyl)phthalate	112
Di-n-Octylphthalate	120
Benzo(b)fluoranthene	110
Benzo(k)fluoranthene	109
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	98
Dibenz(a,h)anthracene	100
Benzo(g,h,i)perylene	99

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	100	21-110
Phenol-d5	104	10-110
Nitrobenzene-d5	106	35-114
2,4,6-Tribromophenol	110	10-123
Fluorene-d10	104	60-120
Pyrene-d10	109	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	107	50-150

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[redacted]

Lab ID#: 1604101-13B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 09:00 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	108
bis(2-Chloroethyl) Ether	101
2-Chlorophenol	100
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
1,2-Dichlorobenzene	100
2-Methylphenol (o-Cresol)	102
bis(2-Chloroisopropyl) Ether	105
N-Nitroso-di-n-propylamine	106
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	103
Nitrobenzene	106
Isophorone	108
2-Nitrophenol	108
2,4-Dimethylphenol	100
Benzoic Acid	99
bis(2-Chloroethoxy) Methane	105
2,4-Dichlorophenol	106
1,2,4-Trichlorobenzene	104
Naphthalene	104
4-Chloroaniline	100
Hexachlorobutadiene	102
4-Chloro-3-methylphenol	106
2-Methylnaphthalene	102
Hexachlorocyclopentadiene	102
2,4,6-Trichlorophenol	107
2,4,5-Trichlorophenol	111
2-Chloronaphthalene	102
2-Nitroaniline	109
Dimethylphthalate	102
Acenaphthylene	104
2,6-Dinitrotoluene	103
3-Nitroaniline	108
Acenaphthene	103
2,4-Dinitrophenol	92
4-Nitrophenol	100
2,4-Dinitrotoluene	102
Dibenzofuran	102
Diethylphthalate	101
Fluorene	100
4-Chlorophenyl-phenyl Ether	102

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[redacted]

Lab ID#: 1604101-13B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 09:00 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	94
4,6-Dinitro-2-methylphenol	106
N-Nitrosodiphenylamine	98
4-Bromophenyl-phenyl Ether	103
Hexachlorobenzene	100
Pentachlorophenol	95
Phenanthrene	100
Anthracene	103
di-n-Butylphthalate	104
Fluoranthene	102
Pyrene	101
Butylbenzylphthalate	106
3,3'-Dichlorobenzidine	96
Chrysene	102
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	104
Di-n-Octylphthalate	108
Benzo(b)fluoranthene	105
Benzo(k)fluoranthene	109
Benzo(a)pyrene	109
Indeno(1,2,3-c,d)pyrene	106
Dibenz(a,h)anthracene	106
Benzo(g,h,i)perylene	106

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	104	21-110
Phenol-d5	103	10-110
Nitrobenzene-d5	109	35-114
2,4,6-Tribromophenol	106	10-123
Fluorene-d10	100	60-120
Pyrene-d10	103	60-120
Benzo(a)pyrene-d12	111	50-150
Fluoranthene-d10	101	50-150

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[redacted]

Lab ID#: 1604101-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:26 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
Phenol	78	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	67	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	83	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	73	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	91	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	79	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	62	10-80
2,4-Dinitrotoluene	89	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604101-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:26 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	28	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	94	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	74	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	99	50-150

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[redacted]

Lab ID#: 1604101-14AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:56 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
Phenol	78	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	68	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	85	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	74	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	89	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	80	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	89	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604101-14AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/7/16 11:56 AM**	
		Date of Extraction: 4/6/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	21	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	96	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	21-110
Phenol-d5	73	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	79	10-123
Fluorene-d10	74	60-120
Pyrene-d10	83	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	96	50-150

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[redacted]

Lab ID#: 1604101-14B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:59 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
Phenol	78	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	65	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	88	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	90	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	80	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	62	10-80
2,4-Dinitrotoluene	90	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604101-14B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 10:59 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	4.5 Q	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	90	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	58	21-110
Phenol-d5	73	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	64	10-123
Fluorene-d10	75	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	106	50-150

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[redacted]

Lab ID#: 1604101-14BB

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 11:28 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
Phenol	73	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	64	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	47	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	82	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	68	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	81	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	77	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	46	10-80
2,4-Dinitrotoluene	83	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604101-14BB

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/8/16 11:28 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	1.1 Q	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	90	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	46	21-110
Phenol-d5	68	10-110
Nitrobenzene-d5	71	35-114
2,4,6-Tribromophenol	62	10-123
Fluorene-d10	70	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	83	50-150
Fluoranthene-d10	93	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano, Shannan Hill

Rotameter: EMS HF-19 **Serial # :** 194587-00 **Expiration Date:** 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – ST (19-ST)~~	~~Sorbent Tube~~	~~SVOCs TO-13A~~	~~5~~	~~5.1~~					~~Eliminated~~
			~~4.8~~ Avg:						
3CS-ST	"	"	5	5.1	0846	0824	1,418	7,019	dining room
			Avg:	4.95					
3CS-ST-D	"	"	5	5.1	0846	0824	1,418	7,019	dining room
			Avg:	4.95					
6-ST	"	"	4.8	4.8	0928	0850	1,402	6,730	kitchen island
			Avg:	4.8					
42-ST N/A	"	"	4.8	4.8	1036	1007	1,411	6,773	kitchen counter
			Avg:	4.8					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 10.8°C
Fed Ex SDR

Relinquished by:		**Date:** 4/5/16	**Time:** 1708	**Received by:**		**Date:** 4/5/16	**Time:** 1721
Relinquished by:	fedex	**Date:** 4/5/16	**Time:** 1800	**Received by:**	Andrea Augustin EAT	**Date:** 4/6/16	**Time:** 1020
Relinquished by:		**Date:**	**Time:**	**Received by:**		**Date:**	**Time:**

1604101

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Carlos Serrano, SHannan Hill

Rotameter: EMS HF-19 **Serial # :** 194587-00 **Expiration Date:** 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
70-ST	"	"	4.8	4.6	1123	1047	1,404	6,599	Center between dining / living
			Avg: 4.7						
70-ST-EXT	"	"	4.8	4.8	1130	1054	1,416	6,797	window center
			Avg: 4.8						
58-ST	"	"	4.8	5.1	1313	1239	1,406	6,960	living room
			Avg: 4.95						
40-ST	"	"	4.8	6.8	1417	1331 (VAC)	1,394	8,085	living room
			Avg: 5.8						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? None Temp 10.8°C Fed Ex SDR

Relinquished by:	Date: 4/5/16	Time: 1708	Received by:	Date: 4/5/16	Time: 1721
Relinquished by: to Fedex	Date: 4/5/16	Time: 1800	Received by: Andrea Augustin EAL	Date: 4/6/16	Time: 1020
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

1604101

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/4/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Carlos Serrano, Shannan Hill
	Rotameter: EMS HF-9 **Serial # :** 194587-00	**Expiration Date:** 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
09A 60-ST-FB	"	"	~~4.8~~	—	~~1419~~	—			
			Avg: —		—	—	—	—	lining room
10A 20-ST	"	"	4.8	5.1	1511	1455			
			Avg: 4.95				1,424	7,049	dining room
1A 5-ST	"	"	4.8	5.1	1715	1648			
			Avg: 4.95				1,413	6,994	eat in dining table
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Fed Ex
Custody Seal Intact?
Y N (None) Temp 10.8 SDR

Relinquished by:		**Date:** 4/5/16	**Time:** 1709	**Received by:**		**Date:** 4/5/16	**Time:** 1721
Relinquished by:		**Date:** 4/5/16	**Time:** 1800	**Received by:**	Andrea Augustin EATL	**Date:** 4/6/16	**Time:** 1020
Relinquished by:		**Date:**	**Time:**	**Received by:**		**Date:**	**Time:**

1604101

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4/12/2016

Meredith Church

Leighton Consulting, Inc.

17781 Cowan

Irvine CA 92614

Project Name:

Project #: 603287048

Workorder #: 1604123

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/7/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604123

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/07/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/12/2016		

FRACTION #	NAME	TEST
01A	122-ST	Modified TO-13A
02A	Lab Blank	Modified TO-13A
03A	CCV	Modified TO-13A
03B	CCV	Modified TO-13A
04A	LCS	Modified TO-13A
04AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/12/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604123

One PUF/XAD Cartridge-Low Volume sample was received on April 07, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridge was pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/1/16.

Sampling volumes were supplied by the client. A sample volume of 6974 L was used to report the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been

flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604123-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.3	0.91
1,4-Dichlorobenzene	1.0	0.14	63	9.0
Naphthalene	1.0	0.14	5.8	0.84
2-Methylnaphthalene	1.0	0.14	0.58 J	0.083 J
Phenanthrene	1.0	0.14	0.19 J	0.027 J
di-n-Butylphthalate	5.0	0.72	7.4	1.1

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	6.3 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	13 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	6.1 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	43 NJ
Nonanal	124-19-6	90%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	18 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	42%	9.0 NJ
2-Pentanol, 2,3-dimethyl-	4911-70-0	47%	21 NJ
Dodecane	112-40-3	93%	19 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	12 NJ

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[redacted]

Lab ID#: 1604123-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040908**	**Date of Collection: 4/5/16 3:11:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 05:48 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.3	0.91
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	63	9.0
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	5.8	0.84
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.58 J	0.083 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604123-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040908**	**Date of Collection:**	**4/5/16 3:11:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 05:48 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.19 J	0.027 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	7.4	1.1
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	6.3 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	13 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	94%	6.1 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	43 NJ
Nonanal	124-19-6	90%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	18 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	42%	9.0 NJ
2-Pentanol, 2,3-dimethyl-	4911-70-0	47%	21 NJ
Dodecane	112-40-3	93%	19 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	12 NJ

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[redacted]

Lab ID#: 1604123-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040908**	**Date of Collection: 4/5/16 3:11:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 05:48 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6970

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	76	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	75	10-123
Fluorene-d10	72	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	96	50-150

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[redacted]

Lab ID#: 1604123-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:49 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604123-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:49 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	11 NJ

Air Sample Volume(L): 6970

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	56	10-123

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[redacted]

Lab ID#: 1604123-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:49 PM**	
		Date of Extraction: 4/7/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	70	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	91	50-150

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[redacted]

Lab ID#: 1604123-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040903**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 03:20 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	110
bis(2-Chloroethyl) Ether	104
2-Chlorophenol	106
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	101
1,2-Dichlorobenzene	99
2-Methylphenol (o-Cresol)	109
bis(2-Chloroisopropyl) Ether	110
N-Nitroso-di-n-propylamine	114
4-Methylphenol/3-Methylphenol	108
Hexachloroethane	102
Nitrobenzene	110
Isophorone	110
2-Nitrophenol	104
2,4-Dimethylphenol	101
Benzoic Acid	89
bis(2-Chloroethoxy) Methane	104
2,4-Dichlorophenol	105
1,2,4-Trichlorobenzene	99
Naphthalene	101
4-Chloroaniline	102
Hexachlorobutadiene	95
4-Chloro-3-methylphenol	112
2-Methylnaphthalene	102
Hexachlorocyclopentadiene	93
2,4,6-Trichlorophenol	103
2,4,5-Trichlorophenol	108
2-Chloronaphthalene	97
2-Nitroaniline	112
Dimethylphthalate	106
Acenaphthylene	104
2,6-Dinitrotoluene	104
3-Nitroaniline	108
Acenaphthene	102
2,4-Dinitrophenol	78
4-Nitrophenol	111
2,4-Dinitrotoluene	112
Dibenzofuran	101
Diethylphthalate	108
Fluorene	107
4-Chlorophenyl-phenyl Ether	102

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[redacted]

Lab ID#: 1604123-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040903**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 03:20 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	108
4,6-Dinitro-2-methylphenol	96
N-Nitrosodiphenylamine	96
4-Bromophenyl-phenyl Ether	97
Hexachlorobenzene	97
Pentachlorophenol	83
Phenanthrene	100
Anthracene	103
di-n-Butylphthalate	109
Fluoranthene	105
Pyrene	110
Butylbenzylphthalate	115
3,3'-Dichlorobenzidine	91
Chrysene	101
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	110
Di-n-Octylphthalate	120
Benzo(b)fluoranthene	110
Benzo(k)fluoranthene	110
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	99
Dibenz(a,h)anthracene	100
Benzo(g,h,i)perylene	99

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	102	21-110
Phenol-d5	102	10-110
Nitrobenzene-d5	106	35-114
2,4,6-Tribromophenol	109	10-123
Fluorene-d10	104	60-120
Pyrene-d10	109	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	105	50-150

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[redacted]

Lab ID#: 1604123-03B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:12 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	119
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	106
1,2-Dichlorobenzene	108
2-Methylphenol (o-Cresol)	115
bis(2-Chloroisopropyl) Ether	119
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	115
Hexachloroethane	110
Nitrobenzene	112
Isophorone	119
2-Nitrophenol	114
2,4-Dimethylphenol	111
Benzoic Acid	90
bis(2-Chloroethoxy) Methane	115
2,4-Dichlorophenol	116
1,2,4-Trichlorobenzene	106
Naphthalene	111
4-Chloroaniline	112
Hexachlorobutadiene	104
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	113
Hexachlorocyclopentadiene	106
2,4,6-Trichlorophenol	110
2,4,5-Trichlorophenol	116
2-Chloronaphthalene	107
2-Nitroaniline	123
Dimethylphthalate	110
Acenaphthylene	114
2,6-Dinitrotoluene	114
3-Nitroaniline	120
Acenaphthene	113
2,4-Dinitrophenol	84
4-Nitrophenol	115
2,4-Dinitrotoluene	126
Dibenzofuran	114
Diethylphthalate	116
Fluorene	114
4-Chlorophenyl-phenyl Ether	109

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[redacted]

Lab ID#: 1604123-03B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:12 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	116
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	107
4-Bromophenyl-phenyl Ether	108
Hexachlorobenzene	107
Pentachlorophenol	93
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	118
Fluoranthene	114
Pyrene	121
Butylbenzylphthalate	124
3,3'-Dichlorobenzidine	99
Chrysene	111
Benzo(a)anthracene	113
bis(2-Ethylhexyl)phthalate	120
Di-n-Octylphthalate	142 Q
Benzo(b)fluoranthene	133 Q
Benzo(k)fluoranthene	137 Q
Benzo(a)pyrene	135 Q
Indeno(1,2,3-c,d)pyrene	125
Dibenz(a,h)anthracene	126
Benzo(g,h,i)perylene	126

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	111	21-110
Phenol-d5	109	10-110
Nitrobenzene-d5	115	35-114
2,4,6-Tribromophenol	119	10-123
Fluorene-d10	111	60-120
Pyrene-d10	121	60-120
Benzo(a)pyrene-d12	136	50-150
Fluoranthene-d10	117	50-150

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[redacted]

Lab ID#: 1604123-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:42 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
Phenol	54	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	52	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	44	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	60	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	51	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	65	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	60	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	53	10-80
2,4-Dinitrotoluene	64	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604123-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:42 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	8.5 Q	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	75	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	46	21-110
Phenol-d5	63	10-110
Nitrobenzene-d5	64	35-114
2,4,6-Tribromophenol	68	10-123
Fluorene-d10	66	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	87	50-150

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[redacted]

Lab ID#: 1604123-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:19 PM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
Phenol	76	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	73	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	67	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	82	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	72	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	86	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	78	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	54	10-80
2,4-Dinitrotoluene	84	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604123-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:19 PM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	13	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	92	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	21-110
Phenol-d5	70	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	70	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	91	50-150

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/5/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Carlos Serrano
	Rotameter: EMS HF-19 **Serial # :** 194587-00	**Expiration Date:** ~~4/15~~ 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
122-ST	Sorbent Tube	SVOCs TO-13	4.8	5.1	1542	1511	1409	6974	Kitchen, Island in middle of kitchen
			Avg: 4.95						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 3.0
FedEx

Relinquished by:		Date: 4/6/16	Time: 1700	Received by:		Date: 4/6/16	Time: 1720
Relinquished by:	FedEx	Date: 4/6/16	Time: 1700	Received by:		Date: 4/7/16	Time: 0950
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

1604123

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4/12/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604124

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/7/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604124

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/07/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/12/2016		

FRACTION #	NAME	TEST
01A	1-ST	Modified TO-13A
02A	107-ST	Modified TO-13A
03A	107-ST-EXT	Modified TO-13A
04A	73-ST	Modified TO-13A
05A	67-ST	Modified TO-13A
06A	115-ST	Modified TO-13A
07A	115-ST-D	Modified TO-13A
08A	115-ST-FR	Modified TO-13A
09A(cancelled)	111-ST	Modified TO-13A
10A	59-ST	Modified TO-13A
11A(cancelled)	80-ST VOID	Modified TO-13A
12A	87-ST-FB	Modified TO-13A
13A	87-ST	Modified TO-13A
14A	88-ST	Modified TO-13A
15A	72-ST	Modified TO-13A
16A	72-ST-D	Modified TO-13A
17A	27-ST	Modified TO-13A
18A	Lab Blank	Modified TO-13A
19A	CCV	Modified TO-13A
19B	CCV	Modified TO-13A
20A	LCS	Modified TO-13A
20AA	LCSD	Modified TO-13A

CERTIFIED BY: DATE: 04/12/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604124

Seventeen PUF/XAD Cartridge-Low Volume samples were received on April 07, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

Samples 80-ST VOID and 111-ST were cancelled on 4/7/16 per client's request.

Analytical Notes

The sample cartridge was pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 3/25/16, 3/31/16, and 4/1/16.

Sampling volumes were supplied by the client. A sample volume of 6994 L was used to report samples 115-ST-FR, 87-ST-FB and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target

compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	14	1.9
Naphthalene	1.0	0.14	0.76 J	0.11 J
Phenanthrene	1.0	0.14	0.12 J	0.017 J
di-n-Butylphthalate	5.0	0.71	2.0 J	0.29 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	22 NJ
Octanal	124-13-0	83%	12 NJ
Nonanal	124-19-6	91%	51 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	160 NJ
Decanal	112-31-2	91%	14 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	64%	13 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	83%	9.2 NJ
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3	1000351-98-2	43%	23 NJ

[redacted]

Lab ID#: 1604124-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	15	2.1
1,4-Dichlorobenzene	1.0	0.14	56	8.0
N-Nitroso-di-n-propylamine	1.0	0.14	0.86 J	0.12 J
Naphthalene	1.0	0.14	9.6	1.4
di-n-Butylphthalate	5.0	0.72	2.7 J	0.39 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	7.1 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	14 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	8.0 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Nonanal	124-19-6	90%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	58%	25 NJ
2,5,8,11,14-Pentaoxapentadecane	143-24-8	72%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	12 NJ
Isobornyl acetate	125-12-2	91%	7.6 NJ
Tetradecane	629-59-4	97%	9.6 NJ
Trisiloxane, octamethyl-	107-51-7	59%	6.8 NJ

[redacted]

Lab ID#: 1604124-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	12 NJ

[redacted]

Lab ID#: 1604124-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	4.2 J	0.61 J
Naphthalene	1.0	0.15	0.53 J	0.078 J
Phenanthrene	1.0	0.15	0.12 J	0.018 J
di-n-Butylphthalate	5.0	0.73	1.3 J	0.19 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	35 NJ
Ethanol, 2-butoxy-	111-76-2	91%	9.1 NJ
1-Hexanol, 2-ethyl-	104-76-7	64%	8.4 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-04A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	200 NJ
Tetradecyl trifluoroacetate	6222-02-2	50%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	8.4 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	17 NJ

[redacted]

Lab ID#: 1604124-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	7.8	1.2
Naphthalene	1.0	0.15	0.39 J	0.059 J
di-n-Butylphthalate	5.0	0.75	1.4 J	0.22 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	35 NJ
Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	99%	12 NJ
Ethanol, 2-butoxy-	111-76-2	64%	19 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	22 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	63 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	29 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	29 NJ
3,5,5-Trimethylhexyl acetate	58430-94-7	53%	55 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	64%	15 NJ

[redacted]

Lab ID#: 1604124-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	12	1.8
1,4-Dichlorobenzene	1.0	0.15	0.62 J	0.094 J
Naphthalene	1.0	0.15	0.57 J	0.087 J
Phenanthrene	1.0	0.15	0.12 J	0.019 J
di-n-Butylphthalate	5.0	0.76	1.8 J	0.27 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	32 NJ
Ethanol, 2-butoxy-	111-76-2	83%	32 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	21 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	16 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	21 NJ
Nonanal	124-19-6	90%	46 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	220 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	17 NJ
Tetradecane	629-59-4	97%	45 NJ

[redacted]

Lab ID#: 1604124-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.83	11	1.8
Naphthalene	1.0	0.17	0.46 J	0.076 J
Acenaphthene	1.0	0.17	0.14 J	0.024 J
Phenanthrene	1.0	0.17	0.12 J	0.019 J
di-n-Butylphthalate	5.0	0.83	1.7 J	0.28 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	32 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-butoxy-	111-76-2	86%	29 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	16 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	19 NJ
Nonanal	124-19-6	90%	35 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	190 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	14 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	16 NJ
Tetradecane	629-59-4	97%	42 NJ

[redacted]

Lab ID#: 1604124-08A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ

[redacted]

Lab ID#: 1604124-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	7.4	1.1
Naphthalene	1.0	0.14	0.33 J	0.048 J
Dimethylphthalate	5.0	0.72	1.3 J	0.18 J
di-n-Butylphthalate	5.0	0.72	1.8 J	0.26 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	22 NJ
1R-.alpha.-Pinene	7785-70-8	96%	21 NJ
Hexylene Glycol	107-41-5	43%	17 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-10A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	32 NJ
Nonanal	124-19-6	91%	21 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	74%	73 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	440 NJ
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	72%	120 NJ
Benzophenone	119-61-9	96%	29 NJ

[redacted]

Lab ID#: 1604124-12A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	12 NJ

[redacted]

Lab ID#: 1604124-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.9	1.0
1,4-Dichlorobenzene	1.0	0.14	3.8	0.56
Naphthalene	1.0	0.14	2.2	0.32
2-Methylnaphthalene	1.0	0.14	0.49 J	0.071 J
Phenanthrene	1.0	0.14	0.094 J	0.013 J
di-n-Butylphthalate	5.0	0.72	1.1 J	0.15 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	40%	23 NJ
Ethanol, 2-butoxy-	111-76-2	91%	48 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-13A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1R-.alpha.-Pinene	7785-70-8	96%	22 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	92%	18 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	33 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	50%	49 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	30 NJ
2,2,4-Trimethyl-1,3-pentanediol diisobut	6846-50-0	53%	16 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	86%	18 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	64%	510 NJ

[redacted]

Lab ID#: 1604124-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	17	2.4
Isophorone	1.0	0.14	0.88 J	0.13 J
Naphthalene	1.0	0.14	4.1	0.59
2-Methylnaphthalene	1.0	0.14	0.70 J	0.10 J
di-n-Butylphthalate	5.0	0.72	2.6 J	0.38 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Octane, 2,5,6-trimethyl-	62016-14-2	64%	80 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	78%	77 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	50%	41 NJ
Decane, 3-methyl-	13151-34-3	72%	110 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	150 NJ
Undecane, 2,9-dimethyl-	17301-26-7	72%	83 NJ
Dodecane, 2,7,10-trimethyl-	74645-98-0	50%	87 NJ
Nonanal	124-19-6	86%	57 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	570 NJ
Octadecane	593-45-3	95%	42 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-15A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
di-n-Butylphthalate	5.0	0.73	1.1 J	0.17 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	23 NJ
1R-.alpha.-Pinene	7785-70-8	96%	4.2 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	10 NJ
Nonanal	124-19-6	90%	6.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	48 NJ
Decanal	112-31-2	91%	4.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	10 NJ
Isopropyl Myristate	110-27-0	87%	4.0 NJ

[redacted]

Lab ID#: 1604124-16A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.8 J	0.55 J
di-n-Butylphthalate	5.0	0.73	1.2 J	0.17 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	34 NJ
1R-.alpha.-Pinene	7785-70-8	96%	6.1 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	90%	15 NJ
Nonanal	124-19-6	90%	9.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	68 NJ
Decanal	112-31-2	91%	5.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604124-17A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	17	2.5
Isophorone	1.0	0.15	1.3	0.19
Naphthalene	1.0	0.15	0.60 J	0.088 J
di-n-Butylphthalate	5.0	0.73	2.7 J	0.39 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-butoxy-	111-76-2	78%	52 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	54 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	55 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	260 NJ
4-Ketopimelic	502-50-1	45%	45 NJ
Hydrazine, 2-butyl-1,1-dimethyl-	54007-23-7	64%	71 NJ
Isobornyl acetate	125-12-2	92%	69 NJ
2,5,8,11,14,17-Hexaoxaoctadecane	1191-87-3	64%	37 NJ
Unknown	NA	NA	44 J
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	48 NJ

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[redacted]

Lab ID#: 1604124-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040909**	**Date of Collection: 4/5/16 8:32:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 06:18 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	14	1.9
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.76 J	0.11 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604124-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040909**	**Date of Collection:**	**4/5/16 8:32:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 06:18 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.12 J	0.017 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	2.0 J	0.29 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	22 NJ
Octanal	124-13-0	83%	12 NJ
Nonanal	124-19-6	91%	51 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	160 NJ
Decanal	112-31-2	91%	14 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	64%	13 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	83%	9.2 NJ
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3	1000351-98-2	43%	23 NJ

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Lab ID#: 1604124-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040909**	**Date of Collection: 4/5/16 8:32:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 06:18 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6990

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	75	60-120
Pyrene-d10	73	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	94	50-150

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Lab ID#: 1604124-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040910**	**Date of Collection: 4/5/16 9:10:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 06:47 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	15	2.1
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	56	8.0
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	0.86 J	0.12 J
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	9.6	1.4
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604124-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040910**	**Date of Collection: 4/5/16 9:10:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 06:47 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	2.7 J	0.39 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	7.1 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	14 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	8.0 NJ
Nonanal	124-19-6	90%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	58%	25 NJ
2,5,8,11,14-Pentaoxapentadecane	143-24-8	72%	13 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	12 NJ
Isobornyl acetate	125-12-2	91%	7.6 NJ
Tetradecane	629-59-4	97%	9.6 NJ
Trisiloxane, octamethyl-	107-51-7	59%	6.8 NJ

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Lab ID#: 1604124-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040910**	**Date of Collection: 4/5/16 9:10:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 06:47 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6940

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	74	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	97	50-150

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Lab ID#: 1604124-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040911**	**Date of Collection: 4/5/16 9:17:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 07:17 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.1	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040911**	**Date of Collection: 4/5/16 9:17:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 07:17 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.1	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	12 NJ

Air Sample Volume(L): 6530

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	62	10-110
Nitrobenzene-d5	63	35-114
2,4,6-Tribromophenol	60	10-123

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Lab ID#: 1604124-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040911**	**Date of Collection: 4/5/16 9:17:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 07:17 PM**
		Date of Extraction: 4/7/16

Surrogates	%Recovery	Method Limits
Fluorene-d10	64	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	66	50-150
Fluoranthene-d10	83	50-150

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Lab ID#: 1604124-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040912**	**Date of Collection:**	**4/5/16 10:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 07:47 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	4.2 J	0.61 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.53 J	0.078 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040912**	**Date of Collection: 4/5/16 10:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 07:47 PM**
		Date of Extraction: 4/7/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.12 J	0.018 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.3 J	0.19 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	64%	35 NJ
Ethanol, 2-butoxy-	111-76-2	91%	9.1 NJ
1-Hexanol, 2-ethyl-	104-76-7	64%	8.4 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	26 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	200 NJ
Tetradecyl trifluoroacetate	6222-02-2	50%	7.0 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	15 NJ
Cyclohexasiloxane, dodecamethyl-	540-97-6	91%	8.4 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	17 NJ

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Lab ID#: 1604124-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040912**	**Date of Collection: 4/5/16 10:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 07:47 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6820

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	79	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	82	50-150
Fluoranthene-d10	98	50-150

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Lab ID#: 1604124-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040913**	**Date of Collection: 4/5/16 10:53:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 08:16 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	7.8	1.2
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.39 J	0.059 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040913**	**Date of Collection: 4/5/16 10:53:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 08:16 PM**
		Date of Extraction: 4/7/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	1.4 J	0.22 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	35 NJ
Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	99%	12 NJ
Ethanol, 2-butoxy-	111-76-2	64%	19 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	22 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	63 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	29 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	29 NJ
3,5,5-Trimethylhexyl acetate	58430-94-7	53%	55 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	64%	15 NJ

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Lab ID#: 1604124-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040913**	**Date of Collection: 4/5/16 10:53:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 08:16 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6680

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	72	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	85	50-150

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Lab ID#: 1604124-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040914**	**Date of Collection: 4/5/16 1:36:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 08:46 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	12	1.8
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.62 J	0.094 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.57 J	0.087 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040914**	**Date of Collection:**	**4/5/16 1:36:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 08:46 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.12 J	0.019 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	1.8 J	0.27 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	32 NJ
Ethanol, 2-butoxy-	111-76-2	83%	32 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	21 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	16 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	21 NJ
Nonanal	124-19-6	90%	46 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	220 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	17 NJ
Tetradecane	629-59-4	97%	45 NJ

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Lab ID#: 1604124-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040914**	**Date of Collection: 4/5/16 1:36:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 08:46 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6560

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	73	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	82	10-123
Fluorene-d10	77	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	99	50-150

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Lab ID#: 1604124-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040915**	**Date of Collection: 4/5/16 1:36:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 09:15 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.83	11	1.8
bis(2-Chloroethyl) Ether	1.0	0.17	Not Detected	Not Detected
2-Chlorophenol	5.0	0.83	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.17	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.17	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.17	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.83	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.17	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.17	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.83	Not Detected	Not Detected
Hexachloroethane	1.0	0.17	Not Detected	Not Detected
Nitrobenzene	1.0	0.17	Not Detected	Not Detected
Isophorone	1.0	0.17	Not Detected	Not Detected
2-Nitrophenol	5.0	0.83	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.83	Not Detected	Not Detected
Benzoic Acid	30	5.0	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.17	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.83	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.17	Not Detected	Not Detected
Naphthalene	1.0	0.17	0.46 J	0.076 J
4-Chloroaniline	10	1.7	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.17	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.83	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.17	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.3	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.83	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.7	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.17	Not Detected	Not Detected
2-Nitroaniline	10	1.7	Not Detected	Not Detected
Dimethylphthalate	5.0	0.83	Not Detected	Not Detected
Acenaphthylene	1.0	0.17	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.83	Not Detected	Not Detected
3-Nitroaniline	10	1.7	Not Detected	Not Detected
Acenaphthene	1.0	0.17	0.14 J	0.024 J
2,4-Dinitrophenol	40	6.7	Not Detected	Not Detected
4-Nitrophenol	40	6.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.83	Not Detected	Not Detected
Dibenzofuran	1.0	0.17	Not Detected	Not Detected
Diethylphthalate	5.0	0.83	Not Detected	Not Detected
Fluorene	1.0	0.17	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.17	Not Detected	Not Detected

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Lab ID#: 1604124-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040915**	**Date of Collection:**	**4/5/16 1:36:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 09:15 PM**
		Date of Extraction:	**4/7/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.7	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.7	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.7	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.17	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.17	Not Detected	Not Detected
Pentachlorophenol	80	13	Not Detected	Not Detected
Phenanthrene	1.0	0.17	0.12 J	0.019 J
Anthracene	1.0	0.17	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.83	1.7 J	0.28 J
Fluoranthene	1.0	0.17	Not Detected	Not Detected
Pyrene	1.0	0.17	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.83	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.3	Not Detected	Not Detected
Chrysene	1.0	0.17	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.17	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.83	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.83	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.17	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.17	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.17	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.17	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.17	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.17	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	32 NJ
Ethanol, 2-butoxy-	111-76-2	86%	29 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	16 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	19 NJ
Nonanal	124-19-6	90%	35 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	190 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	86%	14 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	16 NJ
Tetradecane	629-59-4	97%	42 NJ

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Lab ID#: 1604124-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040915**	**Date of Collection: 4/5/16 1:36:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 09:15 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6000

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	74	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	89	50-150

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Lab ID#: 1604124-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040916**	**Date of Collection: 4/5/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 09:45 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604124-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040916**	**Date of Collection: 4/5/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 09:45 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	14 NJ

Air Sample Volume(L): 6990

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	62	10-123

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Lab ID#: 1604124-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040916**	**Date of Collection:**	**4/5/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 09:45 PM**
		Date of Extraction:	**4/7/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	74	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	94	50-150

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Lab ID#: 1604124-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040917**	**Date of Collection: 4/6/16 8:22:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 10:15 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	7.4	1.1
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.33 J	0.048 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	1.3 J	0.18 J
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604124-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040917**	**Date of Collection: 4/6/16 8:22:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 10:15 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.8 J	0.26 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	22 NJ
1R-.alpha.-Pinene	7785-70-8	96%	21 NJ
Hexylene Glycol	107-41-5	43%	17 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	32 NJ
Nonanal	124-19-6	91%	21 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	74%	73 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
Acetoxyacetic acid, 4-nitrophenyl ester	1000307-54-5	45%	440 NJ
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	72%	120 NJ
Benzophenone	119-61-9	96%	29 NJ

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Lab ID#: 1604124-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040917**	**Date of Collection: 4/6/16 8:22:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 10:15 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6930

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	83	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	75	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	93	50-150

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Lab ID#: 1604124-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040907**	**Date of Collection: 4/6/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 05:18 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604124-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040907**	**Date of Collection: 4/6/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 05:18 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	12 NJ

Air Sample Volume(L): 6990

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	52	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	70	35-114
2,4,6-Tribromophenol	62	10-123

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Lab ID#: 1604124-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040907**	**Date of Collection:**	**4/6/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/9/16 05:18 PM**
		Date of Extraction:	**4/7/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	70	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604124-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040918**	**Date of Collection: 4/6/16 9:50:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 10:44 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.9	1.0
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	3.8	0.56
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	2.2	0.32
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.49 J	0.071 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604124-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040918**	**Date of Collection: 4/6/16 9:50:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 10:44 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.094 J	0.013 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.1 J	0.15 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	40%	23 NJ
Ethanol, 2-butoxy-	111-76-2	91%	48 NJ
1R-.alpha.-Pinene	7785-70-8	96%	22 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	92%	18 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	33 NJ
Ethanol, 2-(hexyloxy)-	112-25-4	50%	49 NJ
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	30 NJ
2,2,4-Trimethyl-1,3-pentanediol diisobut	6846-50-0	53%	16 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	86%	18 NJ
Benzoic acid, 2-ethylhexyl ester	5444-75-7	64%	510 NJ

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Lab ID#: 1604124-13A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040918**	**Date of Collection: 4/6/16 9:50:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 10:44 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6940

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	72	60-120
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	86	50-150

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[redacted]

Lab ID#: 1604124-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040919**	**Date of Collection: 4/6/16 10:57:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 11:14 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	17	2.4
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	0.88 J	0.13 J
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	4.1	0.59
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.70 J	0.10 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604124-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040919**	**Date of Collection: 4/6/16 10:57:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 11:14 PM**
		Date of Extraction: 4/7/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	2.6 J	0.38 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Octane, 2,5,6-trimethyl-	62016-14-2	64%	80 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	78%	77 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	50%	41 NJ
Decane, 3-methyl-	13151-34-3	72%	110 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	150 NJ
Undecane, 2,9-dimethyl-	17301-26-7	72%	83 NJ
Dodecane, 2,7,10-trimethyl-	74645-98-0	50%	87 NJ
Nonanal	124-19-6	86%	57 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	570 NJ
Octadecane	593-45-3	95%	42 NJ

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Lab ID#: 1604124-14A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040919**	**Date of Collection: 4/6/16 10:57:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 11:14 PM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6970

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	77	21-110
Phenol-d5	101	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	82	10-123
Fluorene-d10	78	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	93	50-150

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Lab ID#: 1604124-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040920**	**Date of Collection: 4/6/16 3:43:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 11:43 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040920**	**Date of Collection: 4/6/16 3:43:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 11:43 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.1 J	0.17 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	23 NJ
1R-.alpha.-Pinene	7785-70-8	96%	4.2 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	10 NJ
Nonanal	124-19-6	90%	6.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	48 NJ
Decanal	112-31-2	91%	4.3 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	10 NJ
Isopropyl Myristate	110-27-0	87%	4.0 NJ

Air Sample Volume(L): 6840

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604124-15A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040920**	**Date of Collection: 4/6/16 3:43:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 11:43 PM**
		Date of Extraction: 4/7/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	42	21-110
Phenol-d5	54	10-110
Nitrobenzene-d5	52	35-114
2,4,6-Tribromophenol	61	10-123
Fluorene-d10	62	60-120
Pyrene-d10	68	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	84	50-150

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[redacted]

Lab ID#: 1604124-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040921**	**Date of Collection: 4/6/16 3:44:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:13 AM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	3.8 J	0.55 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040921**	**Date of Collection: 4/6/16 3:44:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:13 AM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.2 J	0.17 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	34 NJ
1R-.alpha.-Pinene	7785-70-8	96%	6.1 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	90%	15 NJ
Nonanal	124-19-6	90%	9.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	68 NJ
Decanal	112-31-2	91%	5.8 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ

Air Sample Volume(L): 6840

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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[redacted]

Lab ID#: 1604124-16A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040921**	**Date of Collection: 4/6/16 3:44:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:13 AM**
		Date of Extraction: 4/7/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	70	10-123
Fluorene-d10	74	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	76	50-150
Fluoranthene-d10	93	50-150

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[redacted]

Lab ID#: 1604124-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040922**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:43 AM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	17	2.5
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	1.3	0.19
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.60 J	0.088 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604124-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040922**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:43 AM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	2.7 J	0.39 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Ethanol, 2-butoxy-	111-76-2	78%	52 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	83%	54 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	55 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	81%	260 NJ
4-Ketopimelic	502-50-1	45%	45 NJ
Hydrazine, 2-butyl-1,1-dimethyl-	54007-23-7	64%	71 NJ
Isobornyl acetate	125-12-2	92%	69 NJ
2,5,8,11,14,17-Hexaoxaoctadecane	1191-87-3	64%	37 NJ
Unknown	NA	NA	44 J
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-04-9	90%	48 NJ

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Lab ID#: 1604124-17A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040922**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:43 AM**
		Date of Extraction: 4/7/16

Air Sample Volume(L): 6830

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	59	21-110
Phenol-d5	70	10-110
Nitrobenzene-d5	66	35-114
2,4,6-Tribromophenol	68	10-123
Fluorene-d10	66	60-120
Pyrene-d10	66	60-120
Benzo(a)pyrene-d12	66	50-150
Fluoranthene-d10	84	50-150

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Lab ID#: 1604124-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:49 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.71	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.71	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.71	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.71	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.71	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.71	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.71	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.71	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.71	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.71	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.71	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604124-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:49 PM**	
		Date of Extraction: 4/7/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.71	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.71	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.8	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.71	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.71	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	97%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	91%	11 NJ

Air Sample Volume(L): 6990

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	56	10-123

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Lab ID#: 1604124-18A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:49 PM**	
		Date of Extraction: 4/7/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	70	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	91	50-150

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Lab ID#: 1604124-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040903**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 03:20 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	110
bis(2-Chloroethyl) Ether	104
2-Chlorophenol	106
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	101
1,2-Dichlorobenzene	99
2-Methylphenol (o-Cresol)	109
bis(2-Chloroisopropyl) Ether	110
N-Nitroso-di-n-propylamine	114
4-Methylphenol/3-Methylphenol	108
Hexachloroethane	102
Nitrobenzene	110
Isophorone	110
2-Nitrophenol	104
2,4-Dimethylphenol	101
Benzoic Acid	89
bis(2-Chloroethoxy) Methane	104
2,4-Dichlorophenol	105
1,2,4-Trichlorobenzene	99
Naphthalene	101
4-Chloroaniline	102
Hexachlorobutadiene	95
4-Chloro-3-methylphenol	112
2-Methylnaphthalene	102
Hexachlorocyclopentadiene	93
2,4,6-Trichlorophenol	103
2,4,5-Trichlorophenol	108
2-Chloronaphthalene	97
2-Nitroaniline	112
Dimethylphthalate	106
Acenaphthylene	104
2,6-Dinitrotoluene	104
3-Nitroaniline	108
Acenaphthene	102
2,4-Dinitrophenol	78
4-Nitrophenol	111
2,4-Dinitrotoluene	112
Dibenzofuran	101
Diethylphthalate	108
Fluorene	107
4-Chlorophenyl-phenyl Ether	102

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Lab ID#: 1604124-19A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040903**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 03:20 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	108
4,6-Dinitro-2-methylphenol	96
N-Nitrosodiphenylamine	96
4-Bromophenyl-phenyl Ether	97
Hexachlorobenzene	97
Pentachlorophenol	83
Phenanthrene	100
Anthracene	103
di-n-Butylphthalate	109
Fluoranthene	105
Pyrene	110
Butylbenzylphthalate	115
3,3'-Dichlorobenzidine	91
Chrysene	101
Benzo(a)anthracene	103
bis(2-Ethylhexyl)phthalate	110
Di-n-Octylphthalate	120
Benzo(b)fluoranthene	110
Benzo(k)fluoranthene	110
Benzo(a)pyrene	108
Indeno(1,2,3-c,d)pyrene	99
Dibenz(a,h)anthracene	100
Benzo(g,h,i)perylene	99

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	102	21-110
Phenol-d5	102	10-110
Nitrobenzene-d5	106	35-114
2,4,6-Tribromophenol	109	10-123
Fluorene-d10	104	60-120
Pyrene-d10	109	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	105	50-150

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Lab ID#: 1604124-19B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:12 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	119
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	106
1,2-Dichlorobenzene	108
2-Methylphenol (o-Cresol)	115
bis(2-Chloroisopropyl) Ether	119
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	115
Hexachloroethane	110
Nitrobenzene	112
Isophorone	119
2-Nitrophenol	114
2,4-Dimethylphenol	111
Benzoic Acid	90
bis(2-Chloroethoxy) Methane	115
2,4-Dichlorophenol	116
1,2,4-Trichlorobenzene	106
Naphthalene	111
4-Chloroaniline	112
Hexachlorobutadiene	104
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	113
Hexachlorocyclopentadiene	106
2,4,6-Trichlorophenol	110
2,4,5-Trichlorophenol	116
2-Chloronaphthalene	107
2-Nitroaniline	123
Dimethylphthalate	110
Acenaphthylene	114
2,6-Dinitrotoluene	114
3-Nitroaniline	120
Acenaphthene	113
2,4-Dinitrophenol	84
4-Nitrophenol	115
2,4-Dinitrotoluene	126
Dibenzofuran	114
Diethylphthalate	116
Fluorene	114
4-Chlorophenyl-phenyl Ether	109

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Lab ID#: 1604124-19B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:12 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	116
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	107
4-Bromophenyl-phenyl Ether	108
Hexachlorobenzene	107
Pentachlorophenol	93
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	118
Fluoranthene	114
Pyrene	121
Butylbenzylphthalate	124
3,3'-Dichlorobenzidine	99
Chrysene	111
Benzo(a)anthracene	113
bis(2-Ethylhexyl)phthalate	120
Di-n-Octylphthalate	142 Q
Benzo(b)fluoranthene	133 Q
Benzo(k)fluoranthene	137 Q
Benzo(a)pyrene	135 Q
Indeno(1,2,3-c,d)pyrene	125
Dibenz(a,h)anthracene	126
Benzo(g,h,i)perylene	126

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	111	21-110
Phenol-d5	109	10-110
Nitrobenzene-d5	115	35-114
2,4,6-Tribromophenol	119	10-123
Fluorene-d10	111	60-120
Pyrene-d10	121	60-120
Benzo(a)pyrene-d12	136	50-150
Fluoranthene-d10	117	50-150

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Lab ID#: 1604124-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:42 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
Phenol	54	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	52	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	44	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	60	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	51	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	65	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	60	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	53	10-80
2,4-Dinitrotoluene	64	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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Lab ID#: 1604124-20A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:42 AM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	8.5 Q	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	75	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	46	21-110
Phenol-d5	63	10-110
Nitrobenzene-d5	64	35-114
2,4,6-Tribromophenol	68	10-123
Fluorene-d10	66	60-120
Pyrene-d10	75	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	87	50-150

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[redacted]

Lab ID#: 1604124-20AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:19 PM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
Phenol	76	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	73	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	67	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	82	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	72	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	86	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	78	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	54	10-80
2,4-Dinitrotoluene	84	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604124-20AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/9/16 04:19 PM**	
		Date of Extraction: 4/7/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	13	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	92	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	21-110
Phenol-d5	70	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	70	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	91	50-150

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4/05/16
	Project Location: Aliso Canyon	LA Co. CIH - Jim Y.	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Wallace Sconiers / Howard Sellers	
	Rotameter: SHO-RATE **Serial # :** 001292	**Expiration Date:** 05/04/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
1-ST			4.8	5.1	0859	0832			1160352 x 160329
			Avg:	4.95			1413	6994.4	~4 ft in bldg. Room
107-ST			4.8	5.0	0923	0910			1160322 x 160309 ~4 ft
			Avg:	4.9			1417	6943.3	Inside bedroom closet, bldg. Area
107-ST-EXT			4.8	4.6	1003	0917			South Backyard
			Avg:	4.7			1389	6528.3	
73-ST	↓	↓	4.8	4.8	1049	103			Attached to bldg. Fence ~4 ft
			Avg:	4.8			1422	6825.6	

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 3.0
Fed Ex

Relinquished by: Wallace Sconiers	**Date:** 4-6-16	**Time:** 1611	**Received by:**	**Date:** 4/6/16	**Time:** 16 14
Relinquished by: to FedEx	**Date:** 4/6/16	**Time:** 1800	**Received by:** Andrea Augustine EATL	**Date:** 4/7/16	**Time:** 0950
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604124

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4/05/16
	Project Location: Aliso Canyon	LA CO. CH - Jun Y.	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Wallace Sconiers / Hannes Dekker	
	Rotameter: SKC-RATE	**Serial # :** 001292	**Expiration Date:** 05/04/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
67-ST			4.8	4.8	1411	1653	1392	6681.6	South - Dining/Living Room table * Smoking odor in home *
			Avg: 4.8						
115-ST			4.8	4.5	1409	1796	1412	6565.8	North portion of home - opposite of staircase - A/C w/ scrubber running
			Avg: 4.65						
115-ST-D			4.8	3.7	1409	1796	1412	6001.0	North portion of home - opposite of staircase - A/C w/ scrubber running
			Avg: 4.25						
115-ST-FB									Field Blank
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Custody Seal Intact?
Y N (None) Temp 3.0°C
Fed Ex

Relinquished by: Wallace Sconiers	**Date:** 4-6-16	**Time:** 1611	**Received by:** JafBL	**Date:** 4/6/16	**Time:** 1614
Relinquished by: JafBL to Fedex	**Date:** 4/6/16	**Time:** 1800	**Received by:** Andrea Augustin EATL	**Date:** 4/7/16	**Time:** 0950
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

160421

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/05/16
	Project Location: Aliso Canyon	LA Co. CIH-Jim Y.
	Client Reference: Los Angeles County	**Industrial Hygienist:** Wallace Sconiers / Hovanes Pelleyan
	Rotameter: 5/10-RATE **Serial # :** 001292	**Expiration Date:** 05/04/18

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
1M-ST	↓	↓	4.8	—	1549	1506	—	—	West of living room behind couch - owner shut off motors on 4-5-16
			Avg: —						
~~SC1-ST~~ WBS 4-6-16		WBS 4-6-16	~~4.8~~						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
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Custody Seal Intact?
Y N (None) Temp 3.0°C
Fed Ex

Relinquished by: Wallace Sconiers	**Date:** 4-6-16	**Time:** 1611	**Received by:** FBL	**Date:** 4/6/16	**Time:** 1614
Relinquished by: FBL to Fedex	**Date:** 4/6/16	**Time:** 1800	**Received by:** Andrea Augustine EATL	**Date:** 4/7/16	**Time:** 0950
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

160417

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project # : 603287048
Date: April 5, 2016
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Shannon Hill + Robin Fonalont, IH
Rotameter:
Serial # : HSA 001159
Expiration Date: 3-21-17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
59-ST	"	"	4.8	5.0	0847	0822	1415	6933.5	dining room
			Avg: 4.9						
60-ST VOID	"	"	4.8	—	0936	VOID			dining room, sorbent pump tube knocked off by resident construction on opposite side of house/bathroom)
			Avg:						
87-ST-FB	"	"	—	—	1003	—	—	—	First Floor bedroom, Blank
			Avg:						
87-ST	"	"	4.8	5.0	1013	0950	1417	6943.3	First Floor bedroom
			Avg: 4.9						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Custody Seal Intact?
Y N None Temp 3.0°C
Fed Ex

Relinquished by: Ingrid Zubieta	**Date:** 4/6/16	**Time:** 1646	**Received by:** [signature]	**Date:** 4/6/16	**Time:** 1656
Relinquished by: [signature] fedex	**Date:** 4/6/16	**Time:** 1800	**Received by:** Andrea Augustin EATL	**Date:** 4/7/16	**Time:** 0950
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/5/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Shannon Hill, Robin Fondahl, IT

Rotameter:

Serial # : HSA 001154 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A			4/5/16	4/6/16			
			Avg: DA						
4A 88-ST	11	11	4.8	X5	1114	1057	1423	6972-3	First floor bedroom (screening purposes because Post Verification was >5L/min)
			Avg: 4.9						
5A 72-ST	11	11	4.8	5.0	1626	1543	1397	6845.3	dining room table Rotameter
			Avg: 4.9						
6A 72-ST-D	11	11	4.8	5.0	1628	1544	1396	6840.4	dining room table
			Avg: 4.9						
7A 27-ST	11	11	4.8	5.0	1705	1619	1394	6830.6	dining room / kitchen area
			Avg: 4.9						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 3.0°C
FedEx

Relinquished by: Ingrid Zubieta	**Date:** 4/6/16	**Time:** 1646	**Received by:** [signature]	**Date:** 4/6/16	**Time:** 1656
Relinquished by: [signature] to FedEx	**Date:** 4/6/16	**Time:** 1800	**Received by:** Andrea Augustin EAT	**Date:** 4/7/16	**Time:** 0950
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604124

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4/13/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604153

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/8/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604153

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/08/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/13/2016		

FRACTION #	NAME	TEST
01A	21-ST-	Modified TO-13A
02A	21-ST-D	Modified TO-13A
03A	118-ST	Modified TO-13A
04A	50-ST	Modified TO-13A
05A	28-ST	Modified TO-13A
06A	41-ST	Modified TO-13A
07A	102-ST	Modified TO-13A
08A	102-ST-EXT	Modified TO-13A
09A	102-ST-B	Modified TO-13A
10A	Lab Blank	Modified TO-13A
10B	Lab Blank	Modified TO-13A
11A	CCV	Modified TO-13A
12A	LCS	Modified TO-13A
12AA	LCSD	Modified TO-13A
12B	LCS	Modified TO-13A

CERTIFIED BY: DATE: 04/13/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604153

Nine PUF/XAD Cartridge-Low Volume samples were received on April 08, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of ice/blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/4/16.

Sampling volumes were supplied by the client. A sample volume of 6984 L was used to report sample 102-ST-B and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is

defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604153-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	8.7	1.2
Isophorone	1.0	0.14	2.5	0.36
Naphthalene	1.0	0.14	3.0	0.43
2-Methylnaphthalene	1.0	0.14	1.0	0.15
Phenanthrene	1.0	0.14	0.17 J	0.024 J
di-n-Butylphthalate	5.0	0.72	3.2 J	0.46 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	96%	140 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	320 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	610 NJ
Acetic acid, phenylmethyl ester	140-11-4	98%	86 NJ
3,5,5-Trimethylhexyl acetate	58430-94-7	74%	65 NJ
Oxalic acid, neopentyl octyl ester	1000309-73-2	47%	130 NJ
Hexanedioic acid, dimethyl ester	627-93-0	91%	140 NJ
Isobornyl acetate	125-12-2	98%	120 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	50%	100 NJ
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3	1000351-98-2	43%	70 NJ

[redacted]

Lab ID#: 1604153-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	8.4	1.2
Isophorone	1.0	0.14	2.7	0.39
Naphthalene	1.0	0.14	3.4	0.49
2-Methylnaphthalene	1.0	0.14	1.3	0.19
Acenaphthene	1.0	0.14	0.22 J	0.032 J
Dibenzofuran	1.0	0.14	0.22 J	0.032 J
Diethylphthalate	5.0	0.72	3.9 J	0.56 J
Fluorene	1.0	0.14	0.18 J	0.026 J
Phenanthrene	1.0	0.14	0.24 J	0.034 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604153-02A

di-n-Butylphthalate	5.0	0.72	3.2 J	0.46 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	96%	140 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	350 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	620 NJ
Acetic acid, phenylmethyl ester	140-11-4	98%	90 NJ
Cyclopentane, 1,1,3,3-tetramethyl-	50876-33-0	47%	67 NJ
2-Furanmethanamine, tetrahydro-	4795-29-3	47%	130 NJ
Hexanedioic acid, dimethyl ester	627-93-0	91%	140 NJ
Isobornyl acetate	125-12-2	97%	120 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	50%	110 NJ
.beta.-iso-Methyl ionone	1000285-40-2	40%	72 NJ

[redacted]

Lab ID#: 1604153-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	13	1.9
Isophorone	1.0	0.14	1.1	0.16
Naphthalene	1.0	0.14	0.73 J	0.10 J
2-Methylnaphthalene	1.0	0.14	0.46 J	0.066 J
Acenaphthene	1.0	0.14	0.18 J	0.026 J
Diethylphthalate	5.0	0.72	2.0 J	0.28 J
Phenanthrene	1.0	0.14	0.10 J	0.014 J
di-n-Butylphthalate	5.0	0.72	1.6 J	0.24 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	29 NJ
1R-.alpha.-Pinene	7785-70-8	96%	14 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	16 NJ
D-Limonene	5989-27-5	94%	16 NJ
1,8-Nonanediol, 8-methyl-	54725-73-4	59%	20 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604153-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Nonanal	124-19-6	90%	27 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	22 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	16409-45-3	87%	25 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	200 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	280 NJ

[redacted]

Lab ID#: 1604153-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	7.6	1.1
1,4-Dichlorobenzene	1.0	0.14	5.1	0.74
Naphthalene	1.0	0.14	0.34 J	0.049 J
Diethylphthalate	5.0	0.72	1.3 J	0.18 J
Phenanthrene	1.0	0.14	0.093 J	0.013 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	64%	26 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	54 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	42 NJ
Octanal	124-13-0	80%	15 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	93%	16 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	39 NJ
Nonanal	124-19-6	91%	52 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	55 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	72%	16 NJ

[redacted]

Lab ID#: 1604153-05A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604153-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	7.6	1.1
1,4-Dichlorobenzene	1.0	0.14	0.97 J	0.14 J
Isophorone	1.0	0.14	0.78 J	0.11 J
Naphthalene	1.0	0.14	2.4	0.34
2-Methylnaphthalene	1.0	0.14	0.77 J	0.11 J
Diethylphthalate	5.0	0.73	25	3.6
di-n-Butylphthalate	5.0	0.73	1.1 J	0.16 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	23 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	91 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	64%	38 NJ
2-Pyrrolidinone, 1-methyl-	872-50-4	90%	23 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	59%	32 NJ
Hexane, 2,2,4-trimethyl-	16747-26-5	64%	27 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	23 NJ
Dodecane, 2,7,10-trimethyl-	74645-98-0	50%	26 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	61 NJ

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Lab ID#: 1604153-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.3	0.91
Naphthalene	1.0	0.14	1.5	0.22
2-Methylnaphthalene	1.0	0.14	1.3	0.19
Diethylphthalate	5.0	0.72	0.79 J	0.11 J
Phenanthrene	1.0	0.14	0.15 J	0.021 J
di-n-Butylphthalate	5.0	0.72	1.2 J	0.17 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604153-06A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	24 NJ
Decane	124-18-5	97%	12 NJ
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	78%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	38 NJ
Nonanal	124-19-6	86%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	50 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	2216-51-5	72%	15 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	90%	14 NJ

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Lab ID#: 1604153-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.6	0.96
Isophorone	1.0	0.14	1.6	0.22
Naphthalene	1.0	0.14	1.4	0.20
2-Methylnaphthalene	1.0	0.14	1.0	0.15
Dimethylphthalate	5.0	0.72	0.82 J	0.12 J
Acenaphthene	1.0	0.14	0.15 J	0.022 J
Diethylphthalate	5.0	0.72	3.6 J	0.51 J
Phenanthrene	1.0	0.14	0.14 J	0.020 J
di-n-Butylphthalate	5.0	0.72	3.1 J	0.45 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
Benzene, 1,3-dimethyl-	108-38-3	97%	27 NJ
Ethanol, 2-butoxy-	111-76-2	52%	48 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	24 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	21 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604153-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	81 NJ
Nonanal	124-19-6	90%	25 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	220 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	280 NJ

[redacted]

Lab ID#: 1604153-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.14	0.30 J	0.044 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	6.9 NJ

[redacted]

Lab ID#: 1604153-09A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	10 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	4.6 NJ

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Lab ID#: 1604153-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040930**	**Date of Collection: 4/6/16 8:33:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 04:32 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	8.7	1.2
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	2.5	0.36
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	3.0	0.43
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	1.0	0.15
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040930**	**Date of Collection:**	**4/6/16 8:33:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 04:32 AM**
		Date of Extraction:	**4/8/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.17 J	0.024 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	3.2 J	0.46 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	96%	140 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	320 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	610 NJ
Acetic acid, phenylmethyl ester	140-11-4	98%	86 NJ
3,5,5-Trimethylhexyl acetate	58430-94-7	74%	65 NJ
Oxalic acid, neopentyl octyl ester	1000309-73-2	47%	130 NJ
Hexanedioic acid, dimethyl ester	627-93-0	91%	140 NJ
Isobornyl acetate	125-12-2	98%	120 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	50%	100 NJ
2-[2-(2-Methoxyethoxy)ethoxy]ethyl 2,2,3	1000351-98-2	43%	70 NJ

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Lab ID#: 1604153-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040930**	**Date of Collection: 4/6/16 8:33:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 04:32 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6970

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	21-110
Phenol-d5	88	10-110
Nitrobenzene-d5	82	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	74	60-120
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	78	50-150
Fluoranthene-d10	84	50-150

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Lab ID#: 1604153-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040931**	**Date of Collection: 4/6/16 8:33:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 05:02 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	8.4	1.2
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	2.7	0.39
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	3.4	0.49
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	1.3	0.19
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	0.22 J	0.032 J
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	0.22 J	0.032 J
Diethylphthalate	5.0	0.72	3.9 J	0.56 J
Fluorene	1.0	0.14	0.18 J	0.026 J
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040931**	**Date of Collection: 4/6/16 8:33:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 05:02 AM**
		Date of Extraction: 4/8/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.24 J	0.034 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	3.2 J	0.46 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1,6-Octadien-3-ol, 3,7-dimethyl-	78-70-6	96%	140 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	350 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	620 NJ
Acetic acid, phenylmethyl ester	140-11-4	98%	90 NJ
Cyclopentane, 1,1,3,3-tetramethyl-	50876-33-0	47%	67 NJ
2-Furanmethanamine, tetrahydro-	4795-29-3	47%	130 NJ
Hexanedioic acid, dimethyl ester	627-93-0	91%	140 NJ
Isobornyl acetate	125-12-2	97%	120 NJ
Cyclohexanol, 2-(1,1-dimethylethyl)-	13491-79-7	50%	110 NJ
.beta.-iso-Methyl ionone	1000285-40-2	40%	72 NJ

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Lab ID#: 1604153-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040931**	**Date of Collection: 4/6/16 8:33:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 05:02 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6970

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	82	21-110
Phenol-d5	90	10-110
Nitrobenzene-d5	85	35-114
2,4,6-Tribromophenol	90	10-123
Fluorene-d10	78	60-120
Pyrene-d10	78	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604153-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040932**	**Date of Collection: 4/6/16 9:08:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 05:31 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	13	1.9
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	1.1	0.16
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.73 J	0.10 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.46 J	0.066 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	0.18 J	0.026 J
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	2.0 J	0.28 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040932**	**Date of Collection: 4/6/16 9:08:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 05:31 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.10 J	0.014 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.6 J	0.24 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	29 NJ
1R-.alpha.-Pinene	7785-70-8	96%	14 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	16 NJ
D-Limonene	5989-27-5	94%	16 NJ
1,8-Nonanediol, 8-methyl-	54725-73-4	59%	20 NJ
Nonanal	124-19-6	90%	27 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	22 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	16409-45-3	87%	25 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	200 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	280 NJ

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Lab ID#: 1604153-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040932**	**Date of Collection: 4/6/16 9:08:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 05:31 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	77	10-123
Fluorene-d10	70	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	70	50-150
Fluoranthene-d10	85	50-150

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Lab ID#: 1604153-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040933**	**Date of Collection: 4/6/16 10:02:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 06:01 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	7.6	1.1
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	5.1	0.74
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.34 J	0.049 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	1.3 J	0.18 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040933**	**Date of Collection:**	**4/6/16 10:02:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 06:01 AM**
		Date of Extraction:	**4/8/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.093 J	0.013 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	64%	26 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	54 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	42 NJ
Octanal	124-13-0	80%	15 NJ
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	93%	16 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	39 NJ
Nonanal	124-19-6	91%	52 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	55 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	15356-70-4	72%	16 NJ

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Lab ID#: 1604153-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040933**	**Date of Collection: 4/6/16 10:02:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 06:01 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	73	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	78	10-123
Fluorene-d10	73	60-120
Pyrene-d10	72	60-120
Benzo(a)pyrene-d12	70	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604153-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040934**	**Date of Collection: 4/6/16 12:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 06:30 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	7.6	1.1
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	0.97 J	0.14 J
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	0.78 J	0.11 J
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	2.4	0.34
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	0.77 J	0.11 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	25	3.6
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name: 12040934
Dil. Factor: 1.00

Date of Collection: 4/6/16 12:50:00 PM
Date of Analysis: 4/10/16 06:30 AM
Date of Extraction: 4/8/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	1.1 J	0.16 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	23 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	91 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	64%	38 NJ
2-Pyrrolidinone, 1-methyl-	872-50-4	90%	23 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	59%	32 NJ
Hexane, 2,2,4-trimethyl-	16747-26-5	64%	27 NJ
7-Octen-2-ol, 2,6-dimethyl-	18479-58-8	83%	23 NJ
Dodecane, 2,7,10-trimethyl-	74645-98-0	50%	26 NJ
Nonanal	124-19-6	91%	22 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	74%	61 NJ

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Lab ID#: 1604153-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040934**	**Date of Collection: 4/6/16 12:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 06:30 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6870

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	73	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	72	60-120
Pyrene-d10	68	60-120
Benzo(a)pyrene-d12	65	50-150
Fluoranthene-d10	89	50-150

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Lab ID#: 1604153-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040935**	**Date of Collection: 4/6/16 2:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:00 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.3	0.91
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.5	0.22
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	1.3	0.19
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	0.79 J	0.11 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040935**	**Date of Collection: 4/6/16 2:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:00 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.15 J	0.021 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	1.2 J	0.17 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	28 NJ
1R-.alpha.-Pinene	7785-70-8	96%	24 NJ
Decane	124-18-5	97%	12 NJ
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	78%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	96%	38 NJ
Nonanal	124-19-6	86%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	50 NJ
Cyclohexanol, 5-methyl-2-(1-methylethyl)	2216-51-5	72%	15 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	90%	14 NJ

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Lab ID#: 1604153-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040935**	**Date of Collection: 4/6/16 2:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:00 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6890

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	75	10-110
Nitrobenzene-d5	75	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	70	60-120
Pyrene-d10	71	60-120
Benzo(a)pyrene-d12	67	50-150
Fluoranthene-d10	90	50-150

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Lab ID#: 1604153-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040936**	**Date of Collection: 4/6/16 3:56:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:29 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	6.6	0.96
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	1.6	0.22
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	1.4	0.20
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	1.0	0.15
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	0.82 J	0.12 J
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	0.15 J	0.022 J
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	3.6 J	0.51 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040936**	**Date of Collection: 4/6/16 3:56:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:29 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.14 J	0.020 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	3.1 J	0.45 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
Benzene, 1,3-dimethyl-	108-38-3	97%	27 NJ
Ethanol, 2-butoxy-	111-76-2	52%	48 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	24 NJ
1-Hexanol, 2-ethyl-	104-76-7	59%	21 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	81 NJ
Nonanal	124-19-6	90%	25 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	110 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	220 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	280 NJ

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Lab ID#: 1604153-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040936**	**Date of Collection: 4/6/16 3:56:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:29 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6950

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	73	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	74	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	67	60-120
Pyrene-d10	69	60-120
Benzo(a)pyrene-d12	66	50-150
Fluoranthene-d10	85	50-150

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Lab ID#: 1604153-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040937**	**Date of Collection: 4/6/16 3:56:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:59 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.30 J	0.044 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040937**	**Date of Collection: 4/6/16 3:56:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:59 AM**
		Date of Extraction: 4/8/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	6.9 NJ

Air Sample Volume(L): 6930

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	61	21-110
Phenol-d5	67	10-110

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Lab ID#: 1604153-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040937**	**Date of Collection: 4/6/16 3:56:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 07:59 AM**
		Date of Extraction: 4/8/16

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	69	35-114
2,4,6-Tribromophenol	64	10-123
Fluorene-d10	61	60-120
Pyrene-d10	65	60-120
Benzo(a)pyrene-d12	54	50-150
Fluoranthene-d10	75	50-150

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Lab ID#: 1604153-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040928**	**Date of Collection: 4/6/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:33 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040928**	**Date of Collection: 4/6/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:33 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	25 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	10 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	4.6 NJ

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	51	21-110
Phenol-d5	59	10-110
Nitrobenzene-d5	59	35-114
2,4,6-Tribromophenol	56	10-123

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Lab ID#: 1604153-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040928**	**Date of Collection:**	**4/6/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 03:33 AM**
		Date of Extraction:	**4/8/16**

Surrogates	%Recovery	Method Limits
Fluorene-d10	64	60-120
Pyrene-d10	74	60-120
Benzo(a)pyrene-d12	67	50-150
Fluoranthene-d10	83	50-150

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Lab ID#: 1604153-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040927**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:03 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040927**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:03 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	9.0 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	10 NJ

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	56	21-110
Phenol-d5	69	10-110
Nitrobenzene-d5	68	35-114
2,4,6-Tribromophenol	64	10-123

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Lab ID#: 1604153-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040927**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:03 AM**	
		Date of Extraction: 4/8/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	70	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	217 Q	50-150
Fluoranthene-d10	233 Q	50-150

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Lab ID#: 1604153-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040946**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:25 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.7	Not Detected	Not Detected
4-Nitrophenol	40	5.7	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604153-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040946**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:25 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	11	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	29 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	83%	12 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	4.9 NJ

Air Sample Volume(L): 6980

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	74	35-114

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Lab ID#: 1604153-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040946**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:25 PM**	
		Date of Extraction: 4/9/16	

Surrogates	%Recovery	Method Limits
2,4,6-Tribromophenol	64	10-123
Fluorene-d10	74	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	102	50-150

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Lab ID#: 1604153-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040924**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 01:34 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	104
bis(2-Chloroethyl) Ether	96
2-Chlorophenol	99
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	95
1,2-Dichlorobenzene	97
2-Methylphenol (o-Cresol)	103
bis(2-Chloroisopropyl) Ether	106
N-Nitroso-di-n-propylamine	106
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	100
Nitrobenzene	104
Isophorone	105
2-Nitrophenol	99
2,4-Dimethylphenol	97
Benzoic Acid	83
bis(2-Chloroethoxy) Methane	101
2,4-Dichlorophenol	101
1,2,4-Trichlorobenzene	94
Naphthalene	96
4-Chloroaniline	96
Hexachlorobutadiene	93
4-Chloro-3-methylphenol	105
2-Methylnaphthalene	98
Hexachlorocyclopentadiene	94
2,4,6-Trichlorophenol	98
2,4,5-Trichlorophenol	106
2-Chloronaphthalene	98
2-Nitroaniline	105
Dimethylphthalate	98
Acenaphthylene	101
2,6-Dinitrotoluene	97
3-Nitroaniline	102
Acenaphthene	99
2,4-Dinitrophenol	72
4-Nitrophenol	93
2,4-Dinitrotoluene	106
Dibenzofuran	98
Diethylphthalate	98
Fluorene	100
4-Chlorophenyl-phenyl Ether	96

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Lab ID#: 1604153-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040924**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 01:34 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	96
4,6-Dinitro-2-methylphenol	98
N-Nitrosodiphenylamine	99
4-Bromophenyl-phenyl Ether	99
Hexachlorobenzene	97
Pentachlorophenol	80
Phenanthrene	98
Anthracene	99
di-n-Butylphthalate	99
Fluoranthene	96
Pyrene	99
Butylbenzylphthalate	102
3,3'-Dichlorobenzidine	90
Chrysene	97
Benzo(a)anthracene	98
bis(2-Ethylhexyl)phthalate	100
Di-n-Octylphthalate	101
Benzo(b)fluoranthene	100
Benzo(k)fluoranthene	102
Benzo(a)pyrene	103
Indeno(1,2,3-c,d)pyrene	99
Dibenz(a,h)anthracene	99
Benzo(g,h,i)perylene	99

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	99	21-110
Phenol-d5	96	10-110
Nitrobenzene-d5	101	35-114
2,4,6-Tribromophenol	101	10-123
Fluorene-d10	98	60-120
Pyrene-d10	100	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604153-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040925**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:04 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	71	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	87	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	82	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	63	10-80
2,4-Dinitrotoluene	90	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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Lab ID#: 1604153-12A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040925**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:04 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	30	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	92	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	74	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	74	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	220 Q	50-150
Fluoranthene-d10	234 Q	50-150

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Lab ID#: 1604153-12AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040926**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:34 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
Phenol	75	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	66	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	72	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	87	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	82	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	87	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604153-12AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040926**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:34 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	26	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	96	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	75	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	226 Q	50-150
Fluoranthene-d10	234 Q	50-150

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[redacted]

Lab ID#: 1604153-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040945**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:55 AM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	77	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	75	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	65	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	84	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	74	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	82	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	82	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	55	10-80
2,4-Dinitrotoluene	82	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604153-12B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040945**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:55 AM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	15	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	97	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	67	10-123
Fluorene-d10	75	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	93	50-150

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-6-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: EMS Serial # : 194588-00	Expiration Date: 5-15-16

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
	Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
				Avg:						
1A	21-ST-	↓	↓	4.80	5.0	0850	0833	1423	6973	master Bedroom
				Avg: 4.90						
2A	21-ST-D	↓	↓	4.80	5.0	0850	0833	1423	6973	↓ ↓
				Avg: 4.90						
3A	118-ST	↓	↓	4.80	5.1	0931	0908	1411	6984	Dining Room
				Avg: 4.95						
4A	50-ST	↓	↓	4.8	5.1	1032	1002	1410	6980	~~Kitchen~~ counter Living Room
				Avg: 4.95						Strong pine-sol scent outside unit

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 14.8°C SDR
Fed Ex

Relinquished by:	Date: 4/7/16	Time: 1653	Received by:	Date: 4/7/16	Time: 1656
Relinquished by:	Date: 4/7/16	Time: 1657	Received by:	Date: 4/7/16	Time: 1658
Relinquished by: to fedex	Date: 4/7	Time: 1800	Received by: EAL	Date: 4/8/16	Time: 1010

1604153

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-6-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: EMS Serial # : 194587-00	Expiration Date: 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
5A 28-ST			4.80	4.60	1314	1250	1460	6862	Living Room
			Avg: 4.70						
6A 41-ST			4.80	5.0	1434	1400	1406	6889	Living Room
			Avg: 4.90						
7A 102-ST			4.80	5.0	1618	1556	1418	6948	Kitchen Island
			Avg: 4.90						
8A 102-ST-EXT.			4.80	5.0	1625	1559	1414	6929	Backyard EXT. Rain started @1400
			Avg: 4.90		1625				

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? Y N (None) Temp 14.8°C SOR
Fed Ex

Relinquished by:	Date: 4/7/16	Time: 1653	Received by: Luis Carlos Perez	Date: 4/7/16	Time: 1659
Relinquished by:	Date: 4/7/16	Time: 1658	Received by: Joel Bell	Date: 4/7/16	Time: 1658
Relinquished by: Fed Ex to Fedex	Date: 4/7/16	Time: 1800	Received by: Andrea Cruzpetin EATL 160415	Date: 4/8/16	Time: 1010

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-6-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: EMS Serial # : 194587-00	Expiration Date: 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
09A 102-ST-B	↓	↓							
			Avg: —		—	—	30 sec	—	Kitchen Island
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 14.8 SDR
Fed Ex

Relinquished by:	Date: 4/7/16	Time: 1653	Received by:	Date: 4/7/16	Time: 1658
Relinquished by:	Date: 4/7/16	Time: 1659	Received by:	Date: 4/7/16	Time: 1658
Relinquished by:	Date: 4/7/16	Time: 1800	Received by:	Date: 4/8/16	Time: 1010

1604153

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4/13/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604154

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/8/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604154

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/08/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/13/2016		

FRACTION #	NAME	TEST
01A	77-ST	Modified TO-13A
02A	100-ST	Modified TO-13A
03A	100-ST-EXT	Modified TO-13A
04A	79-ST	Modified TO-13A
05A	123-ST	Modified TO-13A
06A	123-STD	Modified TO-13A
07A	101-ST	Modified TO-13A
08A	101-ST-TB	Modified TO-13A
09A	Lab Blank	Modified TO-13A
09B	Lab Blank	Modified TO-13A
10A	CCV	Modified TO-13A
10B	CCV	Modified TO-13A
11A	LCS	Modified TO-13A
11AA	LCSD	Modified TO-13A
11B	LCS	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/13/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604154

Eight PUF/XAD Cartridge-Low Volume samples were received on April 08, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/4/16.

Sampling volumes were supplied by the client. A sample volume of 6926 L was used to report samples 101-ST and 101-ST-TB and the Lab Blanks.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is

defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604154-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	3.4 J	0.51 J
1,4-Dichlorobenzene	1.0	0.15	12	1.9
Naphthalene	1.0	0.15	1.1	0.17
Diethylphthalate	5.0	0.76	1.9 J	0.29 J
di-n-Butylphthalate	5.0	0.76	1.2 J	0.18 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	20 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	41 NJ
Hexane, 3-methyl-	589-34-4	64%	12 NJ
Nonanal	124-19-6	80%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	64 NJ
2-Cyclobutyl-2-propanol	59383-67-4	50%	9.4 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
1-Hexene, 3,4,5-trimethyl-	56728-10-0	47%	28 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	26 NJ

[redacted]

Lab ID#: 1604154-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.2	0.74
1,4-Dichlorobenzene	1.0	0.14	1.1	0.16
Naphthalene	1.0	0.14	0.80 J	0.11 J
Diethylphthalate	5.0	0.72	3.2 J	0.46 J
di-n-Butylphthalate	5.0	0.72	3.4 J	0.49 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	20 NJ
o-Xylene	95-47-6	97%	14 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604154-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Trisiloxane, octamethyl-	107-51-7	86%	12 NJ
1R-.alpha.-Pinene	7785-70-8	96%	12 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	34 NJ
Eucalyptol	470-82-6	94%	23 NJ
Nonanal	124-19-6	91%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	95%	310 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ
Benzoic acid, 2-hydroxy-, 3-methylbutyl	87-20-7	72%	13 NJ

[redacted]

Lab ID#: 1604154-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,4-Dichlorobenzene	1.0	0.15	0.73 J	0.11 J
Naphthalene	1.0	0.15	0.47 J	0.072 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	33 NJ
Benzene, 1,3-dimethyl-	108-38-3	97%	4.6 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	15 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	4.1 NJ

[redacted]

Lab ID#: 1604154-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	7.1	1.0
1,4-Dichlorobenzene	1.0	0.15	15	2.2
Naphthalene	1.0	0.15	0.35 J	0.051 J
Diethylphthalate	5.0	0.73	1.9 J	0.28 J

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604154-04A

Phenanthrene	1.0	0.15	0.097 J	0.014 J
di-n-Butylphthalate	5.0	0.73	4.5 J	0.66 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	9.4 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	21 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	10 NJ
Propylene Carbonate	108-32-7	42%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	51 NJ
Nonanal	124-19-6	91%	24 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	8.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	120 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	13 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	92%	18 NJ

[redacted]

Lab ID#: 1604154-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	11	1.6
1,4-Dichlorobenzene	1.0	0.15	7.2	1.1
Isophorone	1.0	0.15	0.67 J	0.10 J
Naphthalene	1.0	0.15	0.77 J	0.12 J
Diethylphthalate	5.0	0.76	2.4 J	0.37 J
di-n-Butylphthalate	5.0	0.76	4.3 J	0.66 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1R-.alpha.-Pinene	7785-70-8	96%	40 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	16 NJ
.beta.-Phellandrene	555-10-2	91%	35 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	120 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	21 NJ
1-Hexene, 3,4,5-trimethyl-	56728-10-0	47%	19 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604154-05A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	72%	20 NJ
Butanedioic acid, bis(2-methylpropyl) es	925-06-4	83%	17 NJ
Butanedioic acid, methyl-, bis(1-methylp	57983-31-0	78%	38 NJ
1,2-Benzenedicarboxylic acid, butyl cycl	84-64-0	80%	18 NJ

[redacted]

Lab ID#: 1604154-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.79	12	2.0
1,4-Dichlorobenzene	1.0	0.16	8.7	1.4
Isophorone	1.0	0.16	0.77 J	0.12 J
Naphthalene	1.0	0.16	0.84 J	0.13 J
Diethylphthalate	5.0	0.79	2.6 J	0.42 J
di-n-Butylphthalate	5.0	0.79	5.1	0.80

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1R-.alpha.-Pinene	7785-70-8	96%	44 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	15 NJ
Limonene	138-86-3	80%	36 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	140 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	14 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	24 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	72%	20 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	86%	20 NJ
Butanedioic acid, methyl-, bis(1-methylp	57983-31-0	64%	42 NJ
1,2-Benzenedicarboxylic acid, butyl cycl	84-64-0	72%	20 NJ

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Lab ID#: 1604154-07A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604154-07A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	4.6 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	83%	12 NJ

[redacted]

Lab ID#: 1604154-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acenaphthene	1.0	0.14	0.41 J	0.059 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	83%	9.7 NJ
2-Methyl-5,6,7,8-tetrahydroquinoxaline	38917-65-6	53%	4.0 NJ

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Lab ID#: 1604154-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040938**	**Date of Collection: 4/6/16 8:26:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 08:28 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	3.4 J	0.51 J
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	12	1.9
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.1	0.17
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	1.9 J	0.29 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604154-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040938**	**Date of Collection:**	**4/6/16 8:26:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 08:28 AM**
		Date of Extraction:	**4/8/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	1.2 J	0.18 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	53%	20 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	41 NJ
Hexane, 3-methyl-	589-34-4	64%	12 NJ
Nonanal	124-19-6	80%	11 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	64 NJ
2-Cyclobutyl-2-propanol	59383-67-4	50%	9.4 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
1-Hexene, 3,4,5-trimethyl-	56728-10-0	47%	28 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	26 NJ

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Lab ID#: 1604154-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040938**	**Date of Collection: 4/6/16 8:26:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 08:28 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6560

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	74	10-110
Nitrobenzene-d5	72	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	66	60-120
Pyrene-d10	69	60-120
Benzo(a)pyrene-d12	67	50-150
Fluoranthene-d10	84	50-150

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Lab ID#: 1604154-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040939**	**Date of Collection: 4/6/16 9:34:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 08:58 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	5.2	0.74
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	1.1	0.16
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	0.80 J	0.11 J
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	3.2 J	0.46 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604154-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040939**	**Date of Collection: 4/6/16 9:34:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 08:58 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	3.4 J	0.49 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	20 NJ
o-Xylene	95-47-6	97%	14 NJ
Trisiloxane, octamethyl-	107-51-7	86%	12 NJ
1R-.alpha.-Pinene	7785-70-8	96%	12 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	34 NJ
Eucalyptol	470-82-6	94%	23 NJ
Nonanal	124-19-6	91%	14 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	95%	310 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ
Benzoic acid, 2-hydroxy-, 3-methylbutyl	87-20-7	72%	13 NJ

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Lab ID#: 1604154-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040939**	**Date of Collection: 4/6/16 9:34:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 08:58 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	53	21-110
Phenol-d5	63	10-110
Nitrobenzene-d5	61	35-114
2,4,6-Tribromophenol	65	10-123
Fluorene-d10	60	60-120
Pyrene-d10	63	60-120
Benzo(a)pyrene-d12	61	50-150
Fluoranthene-d10	76	50-150

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Lab ID#: 1604154-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041209**	**Date of Collection: 4/6/16 9:36:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 11:39 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	0.73 J	0.11 J
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.47 J	0.072 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604154-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041209**	**Date of Collection: 4/6/16 9:36:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 11:39 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	45%	33 NJ
Benzene, 1,3-dimethyl-	108-38-3	97%	4.6 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	15 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	4.1 NJ

Air Sample Volume(L): 6610

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	21-110

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Lab ID#: 1604154-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041209**	**Date of Collection: 4/6/16 9:36:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 11:39 AM**
		Date of Extraction: 4/8/16

Surrogates	%Recovery	Method Limits
Phenol-d5	79	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	74	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604154-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040941**	**Date of Collection: 4/6/16 10:32:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 09:57 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	7.1	1.0
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	15	2.2
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.35 J	0.051 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	1.9 J	0.28 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604154-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040941**	**Date of Collection:**	**4/6/16 10:32:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 09:57 AM**
		Date of Extraction:	**4/8/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.097 J	0.014 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	4.5 J	0.66 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	9.4 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	21 NJ
2-Propanol, 1-butoxy-	5131-66-8	90%	10 NJ
Propylene Carbonate	108-32-7	42%	11 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	51 NJ
Nonanal	124-19-6	91%	24 NJ
Pentanedioic acid, dimethyl ester	1119-40-0	83%	8.9 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	120 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	78%	13 NJ
6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidi	40732-58-9	92%	18 NJ

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Lab ID#: 1604154-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040941**	**Date of Collection: 4/6/16 10:32:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 09:57 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6850

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	56	21-110
Phenol-d5	65	10-110
Nitrobenzene-d5	64	35-114
2,4,6-Tribromophenol	66	10-123
Fluorene-d10	61	60-120
Pyrene-d10	62	60-120
Benzo(a)pyrene-d12	58	50-150
Fluoranthene-d10	75	50-150

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Lab ID#: 1604154-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040942**	**Date of Collection: 4/6/16 1:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 10:27 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.76	11	1.6
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.76	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	7.2	1.1
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.76	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.76	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	0.67 J	0.10 J
2-Nitrophenol	5.0	0.76	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.76	Not Detected	Not Detected
Benzoic Acid	30	4.6	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.76	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.77 J	0.12 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.76	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.76	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.76	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.1	Not Detected	Not Detected
4-Nitrophenol	40	6.1	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.76	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.76	2.4 J	0.37 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604154-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040942**	**Date of Collection:**	**4/6/16 1:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 10:27 AM**
		Date of Extraction:	**4/8/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.76	4.3 J	0.66 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.76	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.76	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.76	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1R-.alpha.-Pinene	7785-70-8	96%	40 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	16 NJ
.beta.-Phellandrene	555-10-2	91%	35 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	120 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	21 NJ
1-Hexene, 3,4,5-trimethyl-	56728-10-0	47%	19 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	72%	20 NJ
Butanedioic acid, bis(2-methylpropyl) es	925-06-4	83%	17 NJ
Butanedioic acid, methyl-, bis(1-methylp	57983-31-0	78%	38 NJ
1,2-Benzenedicarboxylic acid, butyl cycl	84-64-0	80%	18 NJ

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Lab ID#: 1604154-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040942**	**Date of Collection: 4/6/16 1:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 10:27 AM**
		Date of Extraction: 4/8/16

Air Sample Volume(L): 6540

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	21-110
Phenol-d5	66	10-110
Nitrobenzene-d5	63	35-114
2,4,6-Tribromophenol	66	10-123
Fluorene-d10	60	60-120
Pyrene-d10	62	60-120
Benzo(a)pyrene-d12	63	50-150
Fluoranthene-d10	76	50-150

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Lab ID#: 1604154-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041210**	**Date of Collection: 4/6/16 12:58:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:09 PM**	
		Date of Extraction: 12/17/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.79	12	2.0
bis(2-Chloroethyl) Ether	1.0	0.16	Not Detected	Not Detected
2-Chlorophenol	5.0	0.79	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.16	8.7	1.4
1,2-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.79	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.16	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.16	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.79	Not Detected	Not Detected
Hexachloroethane	1.0	0.16	Not Detected	Not Detected
Nitrobenzene	1.0	0.16	Not Detected	Not Detected
Isophorone	1.0	0.16	0.77 J	0.12 J
2-Nitrophenol	5.0	0.79	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.79	Not Detected	Not Detected
Benzoic Acid	30	4.8	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.16	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.79	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.16	Not Detected	Not Detected
Naphthalene	1.0	0.16	0.84 J	0.13 J
4-Chloroaniline	10	1.6	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.16	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.79	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.16	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.2	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.79	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.6	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.16	Not Detected	Not Detected
2-Nitroaniline	10	1.6	Not Detected	Not Detected
Dimethylphthalate	5.0	0.79	Not Detected	Not Detected
Acenaphthylene	1.0	0.16	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.79	Not Detected	Not Detected
3-Nitroaniline	10	1.6	Not Detected	Not Detected
Acenaphthene	1.0	0.16	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.3	Not Detected	Not Detected
4-Nitrophenol	40	6.3	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.79	Not Detected	Not Detected
Dibenzofuran	1.0	0.16	Not Detected	Not Detected
Diethylphthalate	5.0	0.79	2.6 J	0.42 J
Fluorene	1.0	0.16	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.16	Not Detected	Not Detected

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Lab ID#: 1604154-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041210**	**Date of Collection:**	**4/6/16 12:58:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/12/16 12:09 PM**
		Date of Extraction:	**12/17/15**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.6	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.6	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.6	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.16	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.16	Not Detected	Not Detected
Pentachlorophenol	80	13	Not Detected	Not Detected
Phenanthrene	1.0	0.16	Not Detected	Not Detected
Anthracene	1.0	0.16	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.79	5.1	0.80
Fluoranthene	1.0	0.16	Not Detected	Not Detected
Pyrene	1.0	0.16	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.79	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.2	Not Detected	Not Detected
Chrysene	1.0	0.16	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.16	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.79	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.79	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.16	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.16	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.16	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.16	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.16	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.16	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
1R-.alpha.-Pinene	7785-70-8	96%	44 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	15 NJ
Limonene	138-86-3	80%	36 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	140 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	80%	14 NJ
Pentasiloxane, dodecamethyl-	141-63-9	91%	24 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	72%	20 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	86%	20 NJ
Butanedioic acid, methyl-, bis(1-methylp	57983-31-0	64%	42 NJ
1,2-Benzenedicarboxylic acid, butyl cycl	84-64-0	72%	20 NJ

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Lab ID#: 1604154-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041210**	**Date of Collection: 4/6/16 12:58:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:09 PM**
		Date of Extraction: 12/17/15

Air Sample Volume(L): 6320

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	74	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	94	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604154-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040944**	**Date of Collection: 4/6/16 2:24:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:26 AM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604154-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040944**	**Date of Collection: 4/6/16 2:24:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:26 AM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	15 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	56%	30 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	4.6 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	83%	12 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	69	35-114

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Lab ID#: 1604154-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040944**	**Date of Collection: 4/6/16 2:24:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:26 AM**
		Date of Extraction: 4/9/16

Surrogates	%Recovery	Method Limits
2,4,6-Tribromophenol	69	10-123
Fluorene-d10	71	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	96	50-150

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Lab ID#: 1604154-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040929**	**Date of Collection: 4/6/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 04:02 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	0.41 J	0.059 J
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604154-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040929**	**Date of Collection: 4/6/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 04:02 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	11 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	23 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	83%	9.7 NJ
2-Methyl-5,6,7,8-tetrahydroquinoxaline	38917-65-6	53%	4.0 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	50	21-110

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Lab ID#: 1604154-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040929**	**Date of Collection:**	**4/6/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/10/16 04:02 AM**
		Date of Extraction:	**4/8/16**

Surrogates	%Recovery	Method Limits
Phenol-d5	61	10-110
Nitrobenzene-d5	59	35-114
2,4,6-Tribromophenol	61	10-123
Fluorene-d10	65	60-120
Pyrene-d10	73	60-120
Benzo(a)pyrene-d12	61	50-150
Fluoranthene-d10	83	50-150

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Lab ID#: 1604154-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040927**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:03 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604154-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040927**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:03 AM**	
		Date of Extraction: 4/8/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	9.0 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	26 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	10 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	56	21-110
Phenol-d5	69	10-110
Nitrobenzene-d5	68	35-114
2,4,6-Tribromophenol	64	10-123

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Lab ID#: 1604154-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040927**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 03:03 AM**	
		Date of Extraction: 4/8/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	70	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	217 Q	50-150
Fluoranthene-d10	233 Q	50-150

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Lab ID#: 1604154-09B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040946**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:25 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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Lab ID#: 1604154-09B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040946**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:25 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	29 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	83%	12 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	4.9 NJ

Air Sample Volume(L): 6920

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	74	35-114

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[redacted]

Lab ID#: 1604154-09B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040946**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 12:25 PM**	
		Date of Extraction: 4/9/16	

Surrogates	%Recovery	Method Limits
2,4,6-Tribromophenol	64	10-123
Fluorene-d10	74	60-120
Pyrene-d10	79	60-120
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	102	50-150

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[redacted]

Lab ID#: 1604154-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040924**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 01:34 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	104
bis(2-Chloroethyl) Ether	96
2-Chlorophenol	99
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	95
1,2-Dichlorobenzene	97
2-Methylphenol (o-Cresol)	103
bis(2-Chloroisopropyl) Ether	106
N-Nitroso-di-n-propylamine	106
4-Methylphenol/3-Methylphenol	102
Hexachloroethane	100
Nitrobenzene	104
Isophorone	105
2-Nitrophenol	99
2,4-Dimethylphenol	97
Benzoic Acid	83
bis(2-Chloroethoxy) Methane	101
2,4-Dichlorophenol	101
1,2,4-Trichlorobenzene	94
Naphthalene	96
4-Chloroaniline	96
Hexachlorobutadiene	93
4-Chloro-3-methylphenol	105
2-Methylnaphthalene	98
Hexachlorocyclopentadiene	94
2,4,6-Trichlorophenol	98
2,4,5-Trichlorophenol	106
2-Chloronaphthalene	98
2-Nitroaniline	105
Dimethylphthalate	98
Acenaphthylene	101
2,6-Dinitrotoluene	97
3-Nitroaniline	102
Acenaphthene	99
2,4-Dinitrophenol	72
4-Nitrophenol	93
2,4-Dinitrotoluene	106
Dibenzofuran	98
Diethylphthalate	98
Fluorene	100
4-Chlorophenyl-phenyl Ether	96

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[redacted]

Lab ID#: 1604154-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040924**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 01:34 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	96
4,6-Dinitro-2-methylphenol	98
N-Nitrosodiphenylamine	99
4-Bromophenyl-phenyl Ether	99
Hexachlorobenzene	97
Pentachlorophenol	80
Phenanthrene	98
Anthracene	99
di-n-Butylphthalate	99
Fluoranthene	96
Pyrene	99
Butylbenzylphthalate	102
3,3'-Dichlorobenzidine	90
Chrysene	97
Benzo(a)anthracene	98
bis(2-Ethylhexyl)phthalate	100
Di-n-Octylphthalate	101
Benzo(b)fluoranthene	100
Benzo(k)fluoranthene	102
Benzo(a)pyrene	103
Indeno(1,2,3-c,d)pyrene	99
Dibenz(a,h)anthracene	99
Benzo(g,h,i)perylene	99

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	99	21-110
Phenol-d5	96	10-110
Nitrobenzene-d5	101	35-114
2,4,6-Tribromophenol	101	10-123
Fluorene-d10	98	60-120
Pyrene-d10	100	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	96	50-150

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[redacted]

Lab ID#: 1604154-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:12 AM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	119
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	106
1,2-Dichlorobenzene	108
2-Methylphenol (o-Cresol)	115
bis(2-Chloroisopropyl) Ether	119
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	115
Hexachloroethane	110
Nitrobenzene	112
Isophorone	119
2-Nitrophenol	114
2,4-Dimethylphenol	111
Benzoic Acid	90
bis(2-Chloroethoxy) Methane	115
2,4-Dichlorophenol	116
1,2,4-Trichlorobenzene	106
Naphthalene	111
4-Chloroaniline	112
Hexachlorobutadiene	104
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	113
Hexachlorocyclopentadiene	106
2,4,6-Trichlorophenol	110
2,4,5-Trichlorophenol	116
2-Chloronaphthalene	107
2-Nitroaniline	123
Dimethylphthalate	110
Acenaphthylene	114
2,6-Dinitrotoluene	114
3-Nitroaniline	120
Acenaphthene	113
2,4-Dinitrophenol	84
4-Nitrophenol	115
2,4-Dinitrotoluene	126
Dibenzofuran	114
Diethylphthalate	116
Fluorene	114
4-Chlorophenyl-phenyl Ether	109

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[redacted]

Lab ID#: 1604154-10B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 08:12 AM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	116
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	107
4-Bromophenyl-phenyl Ether	108
Hexachlorobenzene	107
Pentachlorophenol	93
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	118
Fluoranthene	114
Pyrene	121
Butylbenzylphthalate	124
3,3'-Dichlorobenzidine	99
Chrysene	111
Benzo(a)anthracene	113
bis(2-Ethylhexyl)phthalate	120
Di-n-Octylphthalate	142 Q
Benzo(b)fluoranthene	133 Q
Benzo(k)fluoranthene	137 Q
Benzo(a)pyrene	135 Q
Indeno(1,2,3-c,d)pyrene	125
Dibenz(a,h)anthracene	126
Benzo(g,h,i)perylene	126

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	111	21-110
Phenol-d5	109	10-110
Nitrobenzene-d5	115	35-114
2,4,6-Tribromophenol	119	10-123
Fluorene-d10	111	60-120
Pyrene-d10	121	60-120
Benzo(a)pyrene-d12	136	50-150
Fluoranthene-d10	117	50-150

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[redacted]

Lab ID#: 1604154-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040925**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:04 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	71	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	87	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	82	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	63	10-80
2,4-Dinitrotoluene	90	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604154-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040925**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:04 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	30	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	92	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	74	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	74	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	220 Q	50-150
Fluoranthene-d10	234 Q	50-150

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[redacted]

Lab ID#: 1604154-11AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040926**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:34 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
Phenol	75	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	74	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	66	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	87	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	72	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	87	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	82	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	59	10-80
2,4-Dinitrotoluene	87	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604154-11AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040926**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 02:34 AM**	
		Date of Extraction: 4/8/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	26	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	96	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	63	21-110
Phenol-d5	71	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	75	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	226 Q	50-150
Fluoranthene-d10	234 Q	50-150

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[redacted]

Lab ID#: 1604154-11B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040945**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:55 AM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	77	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	75	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	65	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	84	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	74	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	82	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	82	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	55	10-80
2,4-Dinitrotoluene	82	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604154-11B

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12040945**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/10/16 11:55 AM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	15	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	97	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	78	35-114
2,4,6-Tribromophenol	67	10-123
Fluorene-d10	75	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	93	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project # : 603287048
Date: 4/6/16
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Camilla Westberg / Joel Berman
Rotameter: 0-15 lpm Sho-Rate **Serial # :** OD 13316 **Expiration Date:** 3/21/17

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
1A	Residence ID Number – ST ~~(13-ST)~~ 77-ST	Sorbent Tube	SVOCs TO-13A	4.8	4.4	0839	1626	1,427	6,564.2	Dining table, ~3.5ft tall SE corner of home
				Avg: 4.6						
2A	~~100-ST~~ 21-ST			4.8	4.9	0946	0934	1,428	6,925.8	Entry foyer table. 3.5ft tall. N. side of house
				Avg: 4.85						
3A	100-ST-EXT			4.8	4.5	0955	0936	1,421	6,607.65	Backyard under pergola. Next to table. 4ft tall. S. of house.
				Avg: 4.65						
4A	179-ST			4.8	4.9	1104	1032	1,412	6,848.2	Living Room by entrance. By fireplace. 4ft tall
				Avg: 4.85						
5A	123-ST			4.8	4.6	1349	1300	1,391	6,537.7	Kitchen table, ~4.5ft tall. East side of house
				Avg: 4.7						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None)
Temp 14.8 SDR
Fed Ex

Relinquished by: Camilla Westberg	**Date:** 4/7/16	**Time:** 1530	**Received by:** [illegible]	**Date:** 4/7/16	**Time:** 3:48
Relinquished by: [illegible]	**Date:** 4/7/16	**Time:** 3:44	**Received by:** [illegible]	**Date:** 4/7/16	**Time:** 1610
Relinquished by: [illegible] to FedEx	**Date:** 4/7/16	**Time:** 1800	**Received by:** Sandra Augustin EATL	**Date:** 4/6/16	**Time:** 1010

160415

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]

Project # : 603287048

Date: 4/6/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg/Joel Berman

Rotameter: 1-15lpm Dho-Rate **Serial #:** 001336 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
164 Residence ID Number – ST ~~0195~~ 123 STD	Sorbent Tube	SVOCs TO-13A	4.8	4.3	1350	1258	1,388	6,315.4	By kitchen table ~4.5 ft tall. East side of home
			Avg: 4.55						
7A 101 – ST	↓	↓	4.8		1424		4/7/16		Living Rm. Fold up table ~3ft tall. SE area of home
			Avg: VOID						~~Duner unplugged sample~~
8A 101 – ST – TB									
			Avg:				0	0	Trip blank
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 14.8 SDR
Fed Ex

Relinquished by: Camilla Westberg	**Date:** 4/7/16	**Time:** 1530	**Received by:** [illegible]	**Date:** 4/7/16	**Time:** 345
Relinquished by: [illegible]	**Date:** 4/7/16	**Time:** 345	**Received by:** [illegible]	**Date:** 4/7/16	**Time:** 164
Relinquished by: FedEx to Lodox	**Date:** 4/7/16	**Time:** 1800	**Received by:** Andrea Angiuli EATL 166415	**Date:** 4/8/16	**Time:** 1010

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4/13/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604156

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/8/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604156

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/08/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/13/2016		

FRACTION #	NAME	TEST
01A	29-ST	Modified TO-13A
02A	106-ST-1	Modified TO-13A
03A	106-ST-1-D	Modified TO-13A
04A	106-ST-2	Modified TO-13A
05A	106-ST-3	Modified TO-13A
06A	Lab Blank	Modified TO-13A
07A	CCV	Modified TO-13A
08A	LCS	Modified TO-13A
08AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/13/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604156

Five PUF/XAD Cartridge-Low Volume samples were received on April 08, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/1/16 and 4/4/16.

Sampling volumes were supplied by the client. A sample volume of 6899 L was used to report the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604156-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	30	4.3
1,4-Dichlorobenzene	1.0	0.14	0.63 J	0.092 J
Naphthalene	1.0	0.14	4.7	0.68
Diethylphthalate	5.0	0.72	3.4 J	0.50 J
Phenanthrene	1.0	0.14	0.16 J	0.023 J
di-n-Butylphthalate	5.0	0.72	2.1 J	0.30 J
Pyrene	1.0	0.14	0.095 J	0.014 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	160 NJ
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	72%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	13 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	53%	15 NJ
Nonanal	124-19-6	90%	19 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	47%	22 NJ
Decanal	112-31-2	91%	17 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	16 NJ

[redacted]

Lab ID#: 1604156-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	34 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	11 NJ
Benzyl Alcohol	100-51-6	98%	22 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	5.0 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	9.8 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604156-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acenaphthene	1.0	0.41	0.20 J	0.080 J
Phenanthrene	1.0	0.41	0.10 J	0.042 J
Pyrene	1.0	0.41	0.21 J	0.087 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	32 NJ
1-Hexanol, 2-ethyl-	104-76-7	83%	11 NJ
Benzyl Alcohol	100-51-6	98%	23 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	96%	5.4 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	11 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	95%	4.1 NJ

[redacted]

Lab ID#: 1604156-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
bis(2-Ethylhexyl)phthalate	5.0	2.2	1.8 J	0.80 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	23 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	38 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	15 NJ
Benzyl Alcohol	100-51-6	98%	47 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	72%	16 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	4.2 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	4.7 NJ

[redacted]

Lab ID#: 1604156-05A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604156-05A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	38 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	16 NJ
1,2,3-Propanetriol, diacetate	25395-31-7	90%	5.5 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	4.3 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	4.4 NJ

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[redacted]

Lab ID#: 1604156-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041112**	**Date of Collection: 4/6/16 12:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 07:09 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	30	4.3
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	0.63 J	0.092 J
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	4.7	0.68
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	3.4 J	0.50 J
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604156-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041112**	**Date of Collection: 4/6/16 12:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 07:09 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	0.16 J	0.023 J
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	2.1 J	0.30 J
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	0.095 J	0.014 J
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	17 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
Cyclotetrasiloxane, octamethyl-	556-67-2	91%	160 NJ
Dodecane, 2,2,11,11-tetramethyl-	127204-12-0	72%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	13 NJ
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6	53%	15 NJ
Nonanal	124-19-6	90%	19 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	47%	22 NJ
Decanal	112-31-2	91%	17 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	16 NJ

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[redacted]

Lab ID#: 1604156-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041112**	**Date of Collection: 4/6/16 12:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 07:09 PM**
		Date of Extraction: 4/9/16

Air Sample Volume(L): 6900

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	21-110
Phenol-d5	88	10-110
Nitrobenzene-d5	88	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	84	60-120
Pyrene-d10	87	60-120
Benzo(a)pyrene-d12	95	50-150
Fluoranthene-d10	98	50-150

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[redacted]

Lab ID#: 1604156-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041113**	**Date of Collection: 4/7/16 3:35:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 07:39 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.0	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.41	Not Detected	Not Detected
2-Chlorophenol	5.0	2.0	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.41	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.41	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.41	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.0	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.41	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.41	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.0	Not Detected	Not Detected
Hexachloroethane	1.0	0.41	Not Detected	Not Detected
Nitrobenzene	1.0	0.41	Not Detected	Not Detected
Isophorone	1.0	0.41	Not Detected	Not Detected
2-Nitrophenol	5.0	2.0	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.0	Not Detected	Not Detected
Benzoic Acid	30	12	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.41	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.41	Not Detected	Not Detected
Naphthalene	1.0	0.41	Not Detected	Not Detected
4-Chloroaniline	10	4.1	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.41	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.0	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.41	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	8.2	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.0	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	4.1	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.41	Not Detected	Not Detected
2-Nitroaniline	10	4.1	Not Detected	Not Detected
Dimethylphthalate	5.0	2.0	Not Detected	Not Detected
Acenaphthylene	1.0	0.41	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.0	Not Detected	Not Detected
3-Nitroaniline	10	4.1	Not Detected	Not Detected
Acenaphthene	1.0	0.41	Not Detected	Not Detected
2,4-Dinitrophenol	40	16	Not Detected	Not Detected
4-Nitrophenol	40	16	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.0	Not Detected	Not Detected
Dibenzofuran	1.0	0.41	Not Detected	Not Detected
Diethylphthalate	5.0	2.0	Not Detected	Not Detected
Fluorene	1.0	0.41	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.41	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604156-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041113**	**Date of Collection: 4/7/16 3:35:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 07:39 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	4.1	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	4.1	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	4.1	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.41	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.41	Not Detected	Not Detected
Pentachlorophenol	80	33	Not Detected	Not Detected
Phenanthrene	1.0	0.41	Not Detected	Not Detected
Anthracene	1.0	0.41	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.0	Not Detected	Not Detected
Fluoranthene	1.0	0.41	Not Detected	Not Detected
Pyrene	1.0	0.41	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.0	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	8.2	Not Detected	Not Detected
Chrysene	1.0	0.41	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.41	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.0	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.0	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.41	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.41	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.41	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.41	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.41	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.41	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	34 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	11 NJ
Benzyl Alcohol	100-51-6	98%	22 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	98%	5.0 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	9.8 NJ

Air Sample Volume(L): 2440

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604156-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041113**	**Date of Collection: 4/7/16 3:35:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 07:39 PM**
		Date of Extraction: 4/9/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	66	10-123
Fluorene-d10	74	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	92	50-150

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Lab ID#: 1604156-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041114**	**Date of Collection: 4/7/16 3:33:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 08:08 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.1	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.41	Not Detected	Not Detected
2-Chlorophenol	5.0	2.1	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.41	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.41	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.41	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.1	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.41	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.41	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.1	Not Detected	Not Detected
Hexachloroethane	1.0	0.41	Not Detected	Not Detected
Nitrobenzene	1.0	0.41	Not Detected	Not Detected
Isophorone	1.0	0.41	Not Detected	Not Detected
2-Nitrophenol	5.0	2.1	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.1	Not Detected	Not Detected
Benzoic Acid	30	12	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.41	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.1	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.41	Not Detected	Not Detected
Naphthalene	1.0	0.41	Not Detected	Not Detected
4-Chloroaniline	10	4.1	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.41	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.1	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.41	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	8.2	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.1	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	4.1	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.41	Not Detected	Not Detected
2-Nitroaniline	10	4.1	Not Detected	Not Detected
Dimethylphthalate	5.0	2.1	Not Detected	Not Detected
Acenaphthylene	1.0	0.41	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.1	Not Detected	Not Detected
3-Nitroaniline	10	4.1	Not Detected	Not Detected
Acenaphthene	1.0	0.41	0.20 J	0.080 J
2,4-Dinitrophenol	40	16	Not Detected	Not Detected
4-Nitrophenol	40	16	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.1	Not Detected	Not Detected
Dibenzofuran	1.0	0.41	Not Detected	Not Detected
Diethylphthalate	5.0	2.1	Not Detected	Not Detected
Fluorene	1.0	0.41	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.41	Not Detected	Not Detected

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Lab ID#: 1604156-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041114**	**Date of Collection:**	**4/7/16 3:33:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 08:08 PM**
		Date of Extraction:	**4/9/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	4.1	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	4.1	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	4.1	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.41	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.41	Not Detected	Not Detected
Pentachlorophenol	80	33	Not Detected	Not Detected
Phenanthrene	1.0	0.41	0.10 J	0.042 J
Anthracene	1.0	0.41	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.1	Not Detected	Not Detected
Fluoranthene	1.0	0.41	Not Detected	Not Detected
Pyrene	1.0	0.41	0.21 J	0.087 J
Butylbenzylphthalate	5.0	2.1	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	8.2	Not Detected	Not Detected
Chrysene	1.0	0.41	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.41	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.1	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.1	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.41	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.41	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.41	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.41	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.41	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.41	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	12 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	32 NJ
1-Hexanol, 2-ethyl-	104-76-7	83%	11 NJ
Benzyl Alcohol	100-51-6	98%	23 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	96%	5.4 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	11 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	95%	4.1 NJ

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Lab ID#: 1604156-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041114**	**Date of Collection: 4/7/16 3:33:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 08:08 PM**
		Date of Extraction: 4/9/16

Air Sample Volume(L): 2420

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	85	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	88	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	108	50-150

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Lab ID#: 1604156-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041115**	**Date of Collection: 4/7/16 3:26:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 08:38 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.2	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.44	Not Detected	Not Detected
2-Chlorophenol	5.0	2.2	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.44	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.44	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.44	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.2	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.44	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.44	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.2	Not Detected	Not Detected
Hexachloroethane	1.0	0.44	Not Detected	Not Detected
Nitrobenzene	1.0	0.44	Not Detected	Not Detected
Isophorone	1.0	0.44	Not Detected	Not Detected
2-Nitrophenol	5.0	2.2	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.2	Not Detected	Not Detected
Benzoic Acid	30	13	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.44	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.44	Not Detected	Not Detected
Naphthalene	1.0	0.44	Not Detected	Not Detected
4-Chloroaniline	10	4.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.44	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.2	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.44	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	8.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.2	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	4.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.44	Not Detected	Not Detected
2-Nitroaniline	10	4.4	Not Detected	Not Detected
Dimethylphthalate	5.0	2.2	Not Detected	Not Detected
Acenaphthylene	1.0	0.44	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.2	Not Detected	Not Detected
3-Nitroaniline	10	4.4	Not Detected	Not Detected
Acenaphthene	1.0	0.44	Not Detected	Not Detected
2,4-Dinitrophenol	40	18	Not Detected	Not Detected
4-Nitrophenol	40	18	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.2	Not Detected	Not Detected
Dibenzofuran	1.0	0.44	Not Detected	Not Detected
Diethylphthalate	5.0	2.2	Not Detected	Not Detected
Fluorene	1.0	0.44	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.44	Not Detected	Not Detected

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Lab ID#: 1604156-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041115**	**Date of Collection: 4/7/16 3:26:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 08:38 PM**
		Date of Extraction: 4/9/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	4.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	4.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	4.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.44	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.44	Not Detected	Not Detected
Pentachlorophenol	80	36	Not Detected	Not Detected
Phenanthrene	1.0	0.44	Not Detected	Not Detected
Anthracene	1.0	0.44	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.2	Not Detected	Not Detected
Fluoranthene	1.0	0.44	Not Detected	Not Detected
Pyrene	1.0	0.44	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.2	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	8.9	Not Detected	Not Detected
Chrysene	1.0	0.44	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.44	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.2	1.8 J	0.80 J
Di-n-Octylphthalate	5.0	2.2	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.44	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.44	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.44	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.44	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.44	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.44	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	23 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	38 NJ
1-Hexanol, 2-ethyl-	104-76-7	78%	15 NJ
Benzyl Alcohol	100-51-6	98%	47 NJ
2-Propenoic acid, 6-methylheptyl ester	54774-91-3	72%	16 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	4.2 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	91%	4.7 NJ

Air Sample Volume(L): 2240

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604156-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041115**	**Date of Collection: 4/7/16 3:26:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 08:38 PM**
		Date of Extraction: 4/9/16

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	21-110
Phenol-d5	86	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	74	10-123
Fluorene-d10	78	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	97	50-150
Fluoranthene-d10	103	50-150

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Lab ID#: 1604156-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041116**	**Date of Collection:**	**4/7/16 3:44:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 09:07 PM**
		Date of Extraction:	**4/9/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.2	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.44	Not Detected	Not Detected
2-Chlorophenol	5.0	2.2	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.44	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.44	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.44	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.2	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.44	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.44	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.2	Not Detected	Not Detected
Hexachloroethane	1.0	0.44	Not Detected	Not Detected
Nitrobenzene	1.0	0.44	Not Detected	Not Detected
Isophorone	1.0	0.44	Not Detected	Not Detected
2-Nitrophenol	5.0	2.2	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.2	Not Detected	Not Detected
Benzoic Acid	30	13	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.44	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.44	Not Detected	Not Detected
Naphthalene	1.0	0.44	Not Detected	Not Detected
4-Chloroaniline	10	4.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.44	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.2	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.44	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	8.8	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.2	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	4.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.44	Not Detected	Not Detected
2-Nitroaniline	10	4.4	Not Detected	Not Detected
Dimethylphthalate	5.0	2.2	Not Detected	Not Detected
Acenaphthylene	1.0	0.44	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.2	Not Detected	Not Detected
3-Nitroaniline	10	4.4	Not Detected	Not Detected
Acenaphthene	1.0	0.44	Not Detected	Not Detected
2,4-Dinitrophenol	40	18	Not Detected	Not Detected
4-Nitrophenol	40	18	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.2	Not Detected	Not Detected
Dibenzofuran	1.0	0.44	Not Detected	Not Detected
Diethylphthalate	5.0	2.2	Not Detected	Not Detected
Fluorene	1.0	0.44	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.44	Not Detected	Not Detected

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Lab ID#: 1604156-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041116**	**Date of Collection: 4/7/16 3:44:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 09:07 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	4.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	4.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	4.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.44	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.44	Not Detected	Not Detected
Pentachlorophenol	80	35	Not Detected	Not Detected
Phenanthrene	1.0	0.44	Not Detected	Not Detected
Anthracene	1.0	0.44	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.2	Not Detected	Not Detected
Fluoranthene	1.0	0.44	Not Detected	Not Detected
Pyrene	1.0	0.44	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.2	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	8.8	Not Detected	Not Detected
Chrysene	1.0	0.44	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.44	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.2	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.2	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.44	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.44	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.44	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.44	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.44	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.44	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	38 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	16 NJ
1,2,3-Propanetriol, diacetate	25395-31-7	90%	5.5 NJ
Benzene,	584-84-9	98%	4.3 NJ
2,4-diisocyanato-1-methyl- 1,3-Benzenediamine, 4-methyl-	95-80-7	96%	4.4 NJ

Air Sample Volume(L): 2260

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110

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Lab ID#: 1604156-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041116**	**Date of Collection: 4/7/16 3:44:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 09:07 PM**
		Date of Extraction: 4/9/16

Surrogates	%Recovery	Method Limits
Phenol-d5	83	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	75	10-123
Fluorene-d10	81	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	93	50-150
Fluoranthene-d10	101	50-150

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[redacted]

Lab ID#: 1604156-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.14	Not Detected	Not Detected
2-Chlorophenol	5.0	0.72	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.14	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.72	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.14	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.14	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.72	Not Detected	Not Detected
Hexachloroethane	1.0	0.14	Not Detected	Not Detected
Nitrobenzene	1.0	0.14	Not Detected	Not Detected
Isophorone	1.0	0.14	Not Detected	Not Detected
2-Nitrophenol	5.0	0.72	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.72	Not Detected	Not Detected
Benzoic Acid	30	4.3	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.14	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.72	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.14	Not Detected	Not Detected
Naphthalene	1.0	0.14	Not Detected	Not Detected
4-Chloroaniline	10	1.4	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.14	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.72	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.14	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.72	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.4	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.14	Not Detected	Not Detected
2-Nitroaniline	10	1.4	Not Detected	Not Detected
Dimethylphthalate	5.0	0.72	Not Detected	Not Detected
Acenaphthylene	1.0	0.14	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
3-Nitroaniline	10	1.4	Not Detected	Not Detected
Acenaphthene	1.0	0.14	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.8	Not Detected	Not Detected
4-Nitrophenol	40	5.8	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.72	Not Detected	Not Detected
Dibenzofuran	1.0	0.14	Not Detected	Not Detected
Diethylphthalate	5.0	0.72	Not Detected	Not Detected
Fluorene	1.0	0.14	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604156-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.4	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.4	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.4	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.14	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.14	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.14	Not Detected	Not Detected
Anthracene	1.0	0.14	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.72	Not Detected	Not Detected
Fluoranthene	1.0	0.14	Not Detected	Not Detected
Pyrene	1.0	0.14	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.72	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.14	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.14	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.72	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.72	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.14	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.14	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.14	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.14	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.14	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ

Air Sample Volume(L): 6900

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	61	10-123

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Lab ID#: 1604156-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	101	50-150

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[redacted]

Lab ID#: 1604156-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	118
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
1,2-Dichlorobenzene	107
2-Methylphenol (o-Cresol)	113
bis(2-Chloroisopropyl) Ether	117
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	116
Hexachloroethane	112
Nitrobenzene	117
Isophorone	120
2-Nitrophenol	111
2,4-Dimethylphenol	115
Benzoic Acid	96
bis(2-Chloroethoxy) Methane	114
2,4-Dichlorophenol	115
1,2,4-Trichlorobenzene	108
Naphthalene	111
4-Chloroaniline	114
Hexachlorobutadiene	106
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	114
Hexachlorocyclopentadiene	105
2,4,6-Trichlorophenol	112
2,4,5-Trichlorophenol	123
2-Chloronaphthalene	110
2-Nitroaniline	128
Dimethylphthalate	114
Acenaphthylene	118
2,6-Dinitrotoluene	118
3-Nitroaniline	122
Acenaphthene	116
2,4-Dinitrophenol	90
4-Nitrophenol	124
2,4-Dinitrotoluene	130
Dibenzofuran	116
Diethylphthalate	121
Fluorene	118
4-Chlorophenyl-phenyl Ether	114

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[redacted]

Lab ID#: 1604156-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	125
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	104
4-Bromophenyl-phenyl Ether	105
Hexachlorobenzene	105
Pentachlorophenol	94
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	119
Fluoranthene	120
Pyrene	114
Butylbenzylphthalate	122
3,3'-Dichlorobenzidine	101
Chrysene	110
Benzo(a)anthracene	114
bis(2-Ethylhexyl)phthalate	123
Di-n-Octylphthalate	163 Q
Benzo(b)fluoranthene	140 Q
Benzo(k)fluoranthene	142 Q
Benzo(a)pyrene	139 Q
Indeno(1,2,3-c,d)pyrene	120
Dibenz(a,h)anthracene	121
Benzo(g,h,i)perylene	121

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	105	21-110
Phenol-d5	115	10-110
Nitrobenzene-d5	116	35-114
2,4,6-Tribromophenol	129	10-123
Fluorene-d10	115	60-120
Pyrene-d10	114	60-120
Benzo(a)pyrene-d12	140	50-150
Fluoranthene-d10	123	50-150

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Lab ID#: 1604156-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:13 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	70	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	86	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	93	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	90	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	67	10-80
2,4-Dinitrotoluene	92	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604156-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:13 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	21	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	98	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	89	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604156-08AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:42 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	82	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	80	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	73	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	90	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	92	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	86	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	65	10-80
2,4-Dinitrotoluene	92	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604156-08AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:42 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	17	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	102	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	80	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	107	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Rotameter:

Project # : 603287048
Date: 4/6/16
Industrial Hygienist: Shannon Hill, Ingrid Zubieta
Serial # : 001154
Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A			4/6	4/7			
			Avg:						
01A 29-ST	11	11	4.8	5.0	1322	1250	1408	6899.2	kitchen island/dining area
			Avg: 4.9						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 14.8°C SDR
Fed Ex

Relinquished by:	Date: 4/7/16	Time: 1620	Received by:	Date: 4/7/16	Time: 1640
Relinquished by:	Date: 4/7/16	Time: 1641	Received by:	Date: 4/7/16	Time: 1645
Relinquished by: to Fedex	Date: 4/7/16	Time: 1800	Received by:	Date: 4/8/16	Time: 1010

1604156 EATL

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/7/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannan Hill/Lucan Wallin
	Rotameter: Serial # : 001154	Expiration Date: 3/21/17

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
	Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A			4/7	4/7			~~room 2138 Classroom 10~~ N/A
				Avg:						
2A	106-ST-1	"	"	4.9	5.0	0721	1535	494	2445.3	Room 2138 Classroom 10
				Avg:	4.95					
3A	106-ST-1-D	"	"	4.9	5.1	0723	1533	490	2425.5	~~MPR~~ N/A Room 2138 Classroom 10
				Avg:	4.95					
4A	106-ST-2	"	"	4.8	4.9	0743	1526	463	2295.6	MPR
				Avg:	4.85					
5A	106-ST-3	"	"	4.8	4.9	0757	1534	467	2265.0	Room 4-108
				Avg:	4.85					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

8 hour samples

Custody Seal Intact? Y N (None) Temp 14.8 °C SOR

Fed Ex

Relinquished by: [signature]	Date: 4/7/16	Time: 1642	Received by: [signature]	Date: 4/7/16	Time: 1643
Relinquished by: [signature]	Date: 4/7/16	Time: 1647	Received by: [signature]	Date: 4/7/16	Time: 1647
Relinquished by: FedEx to Fedex	Date: 4/7/16	Time: 1800	Received by: Andrea Augustin EATL	Date: 4/8/16	Time: 1010

160415 6

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4/13/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604157

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/8/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604157

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/08/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/13/2016		

FRACTION #	NAME	TEST
01A	CBC-ST	Modified TO-13A
02A	CBEXT-ST	Modified TO-13A
03A	CBL-ST	Modified TO-13A
04A	Lab Blank	Modified TO-13A
05A	CCV	Modified TO-13A
06A	LCS	Modified TO-13A
06AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/13/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604157

Three PUF/XAD Cartridge-Low Volume samples were received on April 08, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/4/16.

Sampling volumes were supplied by the client. A sample volume of 1814 L was used to report the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is

defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604157-01A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	35 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	5.2 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	5.4 NJ

[redacted]

Lab ID#: 1604157-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	39 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	16 NJ

[redacted]

Lab ID#: 1604157-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	37 NJ
Ethanol, 2-butoxy-	111-76-2	83%	4.4 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	32 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	21 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	25 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	8.0 NJ
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,	55138-76-6	64%	4.6 NJ

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[redacted]

Lab ID#: 1604157-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041118**	**Date of Collection:**	**4/7/16 2:28:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 10:07 PM**
		Date of Extraction:	**4/9/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.8	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.55	Not Detected	Not Detected
2-Chlorophenol	5.0	2.8	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.55	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.55	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.55	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.8	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.55	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.55	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.8	Not Detected	Not Detected
Hexachloroethane	1.0	0.55	Not Detected	Not Detected
Nitrobenzene	1.0	0.55	Not Detected	Not Detected
Isophorone	1.0	0.55	Not Detected	Not Detected
2-Nitrophenol	5.0	2.8	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.8	Not Detected	Not Detected
Benzoic Acid	30	16	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.55	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.8	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.55	Not Detected	Not Detected
Naphthalene	1.0	0.55	Not Detected	Not Detected
4-Chloroaniline	10	5.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.55	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.8	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.55	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	11	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.8	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	5.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.55	Not Detected	Not Detected
2-Nitroaniline	10	5.5	Not Detected	Not Detected
Dimethylphthalate	5.0	2.8	Not Detected	Not Detected
Acenaphthylene	1.0	0.55	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.8	Not Detected	Not Detected
3-Nitroaniline	10	5.5	Not Detected	Not Detected
Acenaphthene	1.0	0.55	Not Detected	Not Detected
2,4-Dinitrophenol	40	22	Not Detected	Not Detected
4-Nitrophenol	40	22	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.8	Not Detected	Not Detected
Dibenzofuran	1.0	0.55	Not Detected	Not Detected
Diethylphthalate	5.0	2.8	Not Detected	Not Detected
Fluorene	1.0	0.55	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.55	Not Detected	Not Detected

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Lab ID#: 1604157-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041118**	**Date of Collection: 4/7/16 2:28:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 10:07 PM**
		Date of Extraction: 4/9/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	5.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	5.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	5.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.55	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.55	Not Detected	Not Detected
Pentachlorophenol	80	44	Not Detected	Not Detected
Phenanthrene	1.0	0.55	Not Detected	Not Detected
Anthracene	1.0	0.55	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.8	Not Detected	Not Detected
Fluoranthene	1.0	0.55	Not Detected	Not Detected
Pyrene	1.0	0.55	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.8	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	11	Not Detected	Not Detected
Chrysene	1.0	0.55	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.55	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.8	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.8	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.55	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.55	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.55	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.55	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.55	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.55	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	35 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	5.2 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	5.4 NJ

Air Sample Volume(L): 1810

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	82	10-110

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Lab ID#: 1604157-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041118**	**Date of Collection: 4/7/16 2:28:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 10:07 PM**
		Date of Extraction: 4/9/16

Surrogates	%Recovery	Method Limits
Nitrobenzene-d5	79	35-114
2,4,6-Tribromophenol	76	10-123
Fluorene-d10	78	60-120
Pyrene-d10	87	60-120
Benzo(a)pyrene-d12	98	50-150
Fluoranthene-d10	105	50-150

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Lab ID#: 1604157-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041119**	**Date of Collection: 4/7/16 2:40:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 10:36 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.9	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.59	Not Detected	Not Detected
2-Chlorophenol	5.0	2.9	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.59	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.59	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.59	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.9	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.59	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.59	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.9	Not Detected	Not Detected
Hexachloroethane	1.0	0.59	Not Detected	Not Detected
Nitrobenzene	1.0	0.59	Not Detected	Not Detected
Isophorone	1.0	0.59	Not Detected	Not Detected
2-Nitrophenol	5.0	2.9	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.9	Not Detected	Not Detected
Benzoic Acid	30	18	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.59	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.9	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.59	Not Detected	Not Detected
Naphthalene	1.0	0.59	Not Detected	Not Detected
4-Chloroaniline	10	5.9	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.59	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.9	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.59	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	12	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.9	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	5.9	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.59	Not Detected	Not Detected
2-Nitroaniline	10	5.9	Not Detected	Not Detected
Dimethylphthalate	5.0	2.9	Not Detected	Not Detected
Acenaphthylene	1.0	0.59	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.9	Not Detected	Not Detected
3-Nitroaniline	10	5.9	Not Detected	Not Detected
Acenaphthene	1.0	0.59	Not Detected	Not Detected
2,4-Dinitrophenol	40	24	Not Detected	Not Detected
4-Nitrophenol	40	24	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.9	Not Detected	Not Detected
Dibenzofuran	1.0	0.59	Not Detected	Not Detected
Diethylphthalate	5.0	2.9	Not Detected	Not Detected
Fluorene	1.0	0.59	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.59	Not Detected	Not Detected

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Lab ID#: 1604157-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041119**	**Date of Collection: 4/7/16 2:40:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 10:36 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	5.9	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	5.9	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	5.9	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.59	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.59	Not Detected	Not Detected
Pentachlorophenol	80	47	Not Detected	Not Detected
Phenanthrene	1.0	0.59	Not Detected	Not Detected
Anthracene	1.0	0.59	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.9	Not Detected	Not Detected
Fluoranthene	1.0	0.59	Not Detected	Not Detected
Pyrene	1.0	0.59	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.9	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	12	Not Detected	Not Detected
Chrysene	1.0	0.59	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.59	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.9	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.9	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.59	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.59	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.59	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.59	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.59	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.59	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	99%	21 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	39 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	16 NJ

Air Sample Volume(L): 1700

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	21-110
Phenol-d5	80	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	72	10-123

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Lab ID#: 1604157-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041119**	**Date of Collection: 4/7/16 2:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 10:36 PM**
		Date of Extraction: 4/9/16

Surrogates	%Recovery	Method Limits
Fluorene-d10	78	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	103	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604157-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041120**	**Date of Collection: 4/7/16 2:49:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 11:06 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.9	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.57	Not Detected	Not Detected
2-Chlorophenol	5.0	2.9	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.57	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.57	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.57	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.9	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.57	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.57	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.9	Not Detected	Not Detected
Hexachloroethane	1.0	0.57	Not Detected	Not Detected
Nitrobenzene	1.0	0.57	Not Detected	Not Detected
Isophorone	1.0	0.57	Not Detected	Not Detected
2-Nitrophenol	5.0	2.9	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.9	Not Detected	Not Detected
Benzoic Acid	30	17	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.57	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.9	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.57	Not Detected	Not Detected
Naphthalene	1.0	0.57	Not Detected	Not Detected
4-Chloroaniline	10	5.7	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.57	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.9	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.57	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	11	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.9	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	5.7	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.57	Not Detected	Not Detected
2-Nitroaniline	10	5.7	Not Detected	Not Detected
Dimethylphthalate	5.0	2.9	Not Detected	Not Detected
Acenaphthylene	1.0	0.57	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.9	Not Detected	Not Detected
3-Nitroaniline	10	5.7	Not Detected	Not Detected
Acenaphthene	1.0	0.57	Not Detected	Not Detected
2,4-Dinitrophenol	40	23	Not Detected	Not Detected
4-Nitrophenol	40	23	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.9	Not Detected	Not Detected
Dibenzofuran	1.0	0.57	Not Detected	Not Detected
Diethylphthalate	5.0	2.9	Not Detected	Not Detected
Fluorene	1.0	0.57	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.57	Not Detected	Not Detected

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Lab ID#: 1604157-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name: 12041120
Dil. Factor: 1.00

Date of Collection: 4/7/16 2:49:00 PM
Date of Analysis: 4/11/16 11:06 PM
Date of Extraction: 4/9/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	5.7	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	5.7	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	5.7	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.57	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.57	Not Detected	Not Detected
Pentachlorophenol	80	46	Not Detected	Not Detected
Phenanthrene	1.0	0.57	Not Detected	Not Detected
Anthracene	1.0	0.57	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.9	Not Detected	Not Detected
Fluoranthene	1.0	0.57	Not Detected	Not Detected
Pyrene	1.0	0.57	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.9	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	11	Not Detected	Not Detected
Chrysene	1.0	0.57	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.57	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.9	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.9	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.57	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.57	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.57	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.57	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.57	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.57	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	19 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	47%	37 NJ
Ethanol, 2-butoxy-	111-76-2	83%	4.4 NJ
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	90%	32 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	72%	15 NJ
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	64%	21 NJ
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	90%	25 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	96%	8.0 NJ
Pyrazine, 2,3-dimethyl-5-(1-propenyl)-,	55138-76-6	64%	4.6 NJ

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[redacted]

Lab ID#: 1604157-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041120**	**Date of Collection: 4/7/16 2:49:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 11:06 PM**
		Date of Extraction: 4/9/16

Air Sample Volume(L): 1750

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	21-110
Phenol-d5	86	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	79	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	107	50-150

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[redacted]

Lab ID#: 1604157-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	2.8	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.55	Not Detected	Not Detected
2-Chlorophenol	5.0	2.8	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.55	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.55	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.55	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	2.8	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.55	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.55	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.8	Not Detected	Not Detected
Hexachloroethane	1.0	0.55	Not Detected	Not Detected
Nitrobenzene	1.0	0.55	Not Detected	Not Detected
Isophorone	1.0	0.55	Not Detected	Not Detected
2-Nitrophenol	5.0	2.8	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	2.8	Not Detected	Not Detected
Benzoic Acid	30	16	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.55	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	2.8	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.55	Not Detected	Not Detected
Naphthalene	1.0	0.55	Not Detected	Not Detected
4-Chloroaniline	10	5.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.55	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	2.8	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.55	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	11	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	2.8	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	5.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.55	Not Detected	Not Detected
2-Nitroaniline	10	5.5	Not Detected	Not Detected
Dimethylphthalate	5.0	2.8	Not Detected	Not Detected
Acenaphthylene	1.0	0.55	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	2.8	Not Detected	Not Detected
3-Nitroaniline	10	5.5	Not Detected	Not Detected
Acenaphthene	1.0	0.55	Not Detected	Not Detected
2,4-Dinitrophenol	40	22	Not Detected	Not Detected
4-Nitrophenol	40	22	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	2.8	Not Detected	Not Detected
Dibenzofuran	1.0	0.55	Not Detected	Not Detected
Diethylphthalate	5.0	2.8	Not Detected	Not Detected
Fluorene	1.0	0.55	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.55	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604157-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	5.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	5.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	5.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.55	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.55	Not Detected	Not Detected
Pentachlorophenol	80	44	Not Detected	Not Detected
Phenanthrene	1.0	0.55	Not Detected	Not Detected
Anthracene	1.0	0.55	Not Detected	Not Detected
di-n-Butylphthalate	5.0	2.8	Not Detected	Not Detected
Fluoranthene	1.0	0.55	Not Detected	Not Detected
Pyrene	1.0	0.55	Not Detected	Not Detected
Butylbenzylphthalate	5.0	2.8	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	11	Not Detected	Not Detected
Chrysene	1.0	0.55	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.55	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.8	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	2.8	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.55	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.55	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.55	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.55	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.55	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.55	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ

Air Sample Volume(L): 1810

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	61	10-123

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[redacted]

Lab ID#: 1604157-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	101	50-150

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[redacted]

Lab ID#: 1604157-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	118
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
1,2-Dichlorobenzene	107
2-Methylphenol (o-Cresol)	113
bis(2-Chloroisopropyl) Ether	117
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	116
Hexachloroethane	112
Nitrobenzene	117
Isophorone	120
2-Nitrophenol	111
2,4-Dimethylphenol	115
Benzoic Acid	96
bis(2-Chloroethoxy) Methane	114
2,4-Dichlorophenol	115
1,2,4-Trichlorobenzene	108
Naphthalene	111
4-Chloroaniline	114
Hexachlorobutadiene	106
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	114
Hexachlorocyclopentadiene	105
2,4,6-Trichlorophenol	112
2,4,5-Trichlorophenol	123
2-Chloronaphthalene	110
2-Nitroaniline	128
Dimethylphthalate	114
Acenaphthylene	118
2,6-Dinitrotoluene	118
3-Nitroaniline	122
Acenaphthene	116
2,4-Dinitrophenol	90
4-Nitrophenol	124
2,4-Dinitrotoluene	130
Dibenzofuran	116
Diethylphthalate	121
Fluorene	118
4-Chlorophenyl-phenyl Ether	114

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[redacted]

Lab ID#: 1604157-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	125
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	104
4-Bromophenyl-phenyl Ether	105
Hexachlorobenzene	105
Pentachlorophenol	94
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	119
Fluoranthene	120
Pyrene	114
Butylbenzylphthalate	122
3,3'-Dichlorobenzidine	101
Chrysene	110
Benzo(a)anthracene	114
bis(2-Ethylhexyl)phthalate	123
Di-n-Octylphthalate	163 Q
Benzo(b)fluoranthene	140 Q
Benzo(k)fluoranthene	142 Q
Benzo(a)pyrene	139 Q
Indeno(1,2,3-c,d)pyrene	120
Dibenz(a,h)anthracene	121
Benzo(g,h,i)perylene	121

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	105	21-110
Phenol-d5	115	10-110
Nitrobenzene-d5	116	35-114
2,4,6-Tribromophenol	129	10-123
Fluorene-d10	115	60-120
Pyrene-d10	114	60-120
Benzo(a)pyrene-d12	140	50-150
Fluoranthene-d10	123	50-150

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[redacted]

Lab ID#: 1604157-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:13 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	70	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	86	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	93	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	90	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	67	10-80
2,4-Dinitrotoluene	92	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604157-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:13 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	21	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	98	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	89	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604157-06AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:42 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	82	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	80	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	73	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	90	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	92	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	86	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	65	10-80
2,4-Dinitrotoluene	92	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604157-06AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:42 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	17	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	102	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	80	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	107	50-150

AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-07-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Wallace Scanlon / Howard Delcavan	
	Rotameter: 5/10-RAS	Serial # : 001292	Expiration Date: 05-04-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A	Avg:						NE classroom #15 Corner closest to Box School
2A CBC-ST			4.8	4.9	0814	1428	374	1,814	HCO 4/07/16 N. outdoor courtyard - N.
			Avg: 4.85						
4A CBEXT-ST			4.8	4.5	0835	1440	365	1,697	HCO 4/07/16 N. Portable library
			Avg: 4.65						
3A CBL-ST			4.8	4.9	0849	1449	360	1,746	HCO 4/07/16
			Avg: 4.85						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact? Y N None Temp 14.8°C SOR Fed Ex

Relinquished by: Wallace Scanlon	Date: 4-7-16	Time: 1535	Received by:	Date: 4/7/16	Time: 1545
Relinquished by: to Fedex	Date: 4/7/16	Time: 1800	Received by: Andrea Augustin EATL	Date: 4/8/16	Time: 1010
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

1604157

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4/13/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604158

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/8/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604158

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/08/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/13/2016		

FRACTION #	NAME	TEST
01A	84-ST	Modified TO-13A
02A	Lab Blank	Modified TO-13A
03A	CCV	Modified TO-13A
04A	LCS	Modified TO-13A
04AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/13/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604158

One PUF/XAD Cartridge-Low Volume sample was received on April 08, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

The sample cartridge was pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/1/16.

Sampling volumes were supplied by the client. A sample volume of 6674 L was used to report the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is

defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604158-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.15	0.44 J	0.066 J
Diethylphthalate	5.0	0.75	3.2 J	0.49 J
di-n-Butylphthalate	5.0	0.75	1.1 J	0.17 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	8.2 NJ
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	35 NJ
Ethanol, 2-butoxy-	111-76-2	90%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	9.6 NJ
Nonanal	124-19-6	90%	24 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	75 NJ
Decanal	112-31-2	91%	9.6 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Tridecane	629-50-5	96%	17 NJ

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[redacted]

Lab ID#: 1604158-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041117**	**Date of Collection:**	**4/6/16 9:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 09:37 PM**
		Date of Extraction:	**4/9/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.44 J	0.066 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	3.2 J	0.49 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604158-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041117**	**Date of Collection:**	**4/6/16 9:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 09:37 PM**
		Date of Extraction:	**4/9/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	1.1 J	0.17 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexanal	66-25-1	72%	8.2 NJ
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	35 NJ
Ethanol, 2-butoxy-	111-76-2	90%	13 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	94%	9.6 NJ
Nonanal	124-19-6	90%	24 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	75 NJ
Decanal	112-31-2	91%	9.6 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	15 NJ
Tridecane	629-50-5	96%	17 NJ

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Lab ID#: 1604158-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041117**	**Date of Collection: 4/6/16 9:45:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 09:37 PM**
		Date of Extraction: 4/9/16

Air Sample Volume(L): 6670

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	77	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	71	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1604158-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.75	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.75	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.75	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.75	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.75	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.75	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.75	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.75	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.75	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.0	Not Detected	Not Detected
4-Nitrophenol	40	6.0	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.75	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.75	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604158-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.75	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.75	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.75	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.75	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	30 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	12 NJ

Air Sample Volume(L): 6670

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	61	10-123

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Lab ID#: 1604158-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:11 PM**	
		Date of Extraction: 4/9/16	

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604158-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	118
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
1,2-Dichlorobenzene	107
2-Methylphenol (o-Cresol)	113
bis(2-Chloroisopropyl) Ether	117
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	116
Hexachloroethane	112
Nitrobenzene	117
Isophorone	120
2-Nitrophenol	111
2,4-Dimethylphenol	115
Benzoic Acid	96
bis(2-Chloroethoxy) Methane	114
2,4-Dichlorophenol	115
1,2,4-Trichlorobenzene	108
Naphthalene	111
4-Chloroaniline	114
Hexachlorobutadiene	106
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	114
Hexachlorocyclopentadiene	105
2,4,6-Trichlorophenol	112
2,4,5-Trichlorophenol	123
2-Chloronaphthalene	110
2-Nitroaniline	128
Dimethylphthalate	114
Acenaphthylene	118
2,6-Dinitrotoluene	118
3-Nitroaniline	122
Acenaphthene	116
2,4-Dinitrophenol	90
4-Nitrophenol	124
2,4-Dinitrotoluene	130
Dibenzofuran	116
Diethylphthalate	121
Fluorene	118
4-Chlorophenyl-phenyl Ether	114

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[redacted]

Lab ID#: 1604158-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	125
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	104
4-Bromophenyl-phenyl Ether	105
Hexachlorobenzene	105
Pentachlorophenol	94
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	119
Fluoranthene	120
Pyrene	114
Butylbenzylphthalate	122
3,3'-Dichlorobenzidine	101
Chrysene	110
Benzo(a)anthracene	114
bis(2-Ethylhexyl)phthalate	123
Di-n-Octylphthalate	163 Q
Benzo(b)fluoranthene	140 Q
Benzo(k)fluoranthene	142 Q
Benzo(a)pyrene	139 Q
Indeno(1,2,3-c,d)pyrene	120
Dibenz(a,h)anthracene	121
Benzo(g,h,i)perylene	121

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	105	21-110
Phenol-d5	115	10-110
Nitrobenzene-d5	116	35-114
2,4,6-Tribromophenol	129	10-123
Fluorene-d10	115	60-120
Pyrene-d10	114	60-120
Benzo(a)pyrene-d12	140	50-150
Fluoranthene-d10	123	50-150

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Lab ID#: 1604158-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:13 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	79	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	76	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	70	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	86	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	93	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	90	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	67	10-80
2,4-Dinitrotoluene	92	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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Lab ID#: 1604158-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:13 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	21	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	98	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	67	21-110
Phenol-d5	78	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	89	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604158-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:42 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
Phenol	82	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	80	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	73	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	90	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	75	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	92	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	86	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	65	10-80
2,4-Dinitrotoluene	92	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604158-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 03:42 PM**	
		Date of Extraction: 4/9/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	17	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	102	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	82	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	80	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	107	50-150

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4-6-16
	Project Location: Aliso Canyon	LACo. CH – Jim Y.
	Client Reference: Los Angeles County	**Industrial Hygienist:** Novaness Dekeyan, Wallace Scorners (Samplers)
	Rotameter: Dwg-Rate **Serial # :** 431648 (001292)	**Expiration Date:** 5-4-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
1A S1-ST	↓	↓	4.8	4.6	1005	0945	1420	6674	Northwest corner of living room 4 ft
			Avg: 4.7						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N (None) Temp 14.8°C SDR
Fed EX

Relinquished by: Wallace Scorners	**Date:** 4-7-16	**Time:** 1600	**Received by:** Lucia Cadena-Perez	**Date:** 4-7-16	**Time:** 4:09
Relinquished by: Lucia Cadena-Perez	**Date:** 4-7-16	**Time:** 4:10	**Received by:** [signature]	**Date:** 4/7/16	**Time:** 1613
Relinquished by: [signature] to Fedex	**Date:** 4/7/16	**Time:** 1800	**Received by:** Andrea Augustin EATL	**Date:** 4/8/16	**Time:** 1010

1604158

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4/14/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604173

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/9/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604173

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/09/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/13/2016		

FRACTION #	NAME	TEST
01A	43-ST	Modified TO-13A
02A	125-ST	Modified TO-13A
03A	125-ST-FB	Modified TO-13A
04A	Lab Blank	Modified TO-13A
05A	CCV	Modified TO-13A
06A	LCS	Modified TO-13A
06AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/14/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604173

Three PUF/XAD Cartridge-Low Volume samples were received on April 09, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/1/16 and 4/6/16.

Sampling volumes were supplied by the client. A sample volume of 6826 L was used to report the sample 125-ST-FB and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target

compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604173-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.78	6.6	1.0
Naphthalene	1.0	0.16	1.5	0.23
Diethylphthalate	5.0	0.78	1.5 J	0.23 J
di-n-Butylphthalate	5.0	0.78	1.0 J	0.16 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	24 NJ
Bicyclo[4.2.0]octa-1,3,5-triene	694-87-1	96%	18 NJ
Heptane, 2,2,4-trimethyl-	14720-74-2	50%	18 NJ
Pentafluoropropionic acid, 2-ethylhexyl	1000280-14-6	45%	20 NJ
2-Pyrrolidinone, 1-methyl-	872-50-4	91%	58 NJ
Nonanal	124-19-6	90%	21 NJ
Benzene, 1,2,3,4-tetramethyl-	488-23-3	95%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	18 NJ

[redacted]

Lab ID#: 1604173-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	6.9	1.0
Isophorone	1.0	0.15	0.75 J	0.11 J
Naphthalene	1.0	0.15	1.3	0.19
2-Methylnaphthalene	1.0	0.15	0.45 J	0.067 J
Diethylphthalate	5.0	0.73	3.6 J	0.52 J
Phenanthrene	1.0	0.15	0.13 J	0.019 J
di-n-Butylphthalate	5.0	0.73	7.1	1.0
Pyrene	1.0	0.15	0.073 J	0.011 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604173-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Heptane, 2,2-dimethyl-	1071-26-7	59%	160 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	78%	96 NJ
Sulfurous acid, 2-ethylhexyl hexyl ester	1000309-20-2	80%	87 NJ
Decane, 2,2-dimethyl-	17302-37-3	78%	99 NJ
Limonene	138-86-3	89%	67 NJ
Nonane, 2-methyl-5-propyl-	31081-17-1	72%	130 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	150 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	64%	80 NJ
Decane, 3,7-dimethyl-	17312-54-8	72%	75 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	94%	240 NJ

[redacted]

Lab ID#: 1604173-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	8.8 NJ
1H-Imidazo[4,5-b]pyridin-2-amine, 5-meth	1000351-72-5	58%	4.0 NJ
Pyrido[2,3-d]pyrimidin-4(1H)-one	24410-19-3	39%	4.3 NJ
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	50%	9.3 NJ

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[redacted]

Lab ID#: 1604173-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041121**	**Date of Collection: 4/8/16 9:57:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 11:35 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.78	6.6	1.0
bis(2-Chloroethyl) Ether	1.0	0.16	Not Detected	Not Detected
2-Chlorophenol	5.0	0.78	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.16	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.78	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.16	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.16	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.78	Not Detected	Not Detected
Hexachloroethane	1.0	0.16	Not Detected	Not Detected
Nitrobenzene	1.0	0.16	Not Detected	Not Detected
Isophorone	1.0	0.16	Not Detected	Not Detected
2-Nitrophenol	5.0	0.78	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.78	Not Detected	Not Detected
Benzoic Acid	30	4.7	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.16	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.78	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.16	Not Detected	Not Detected
Naphthalene	1.0	0.16	1.5	0.23
4-Chloroaniline	10	1.6	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.16	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.78	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.16	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	3.1	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.78	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.6	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.16	Not Detected	Not Detected
2-Nitroaniline	10	1.6	Not Detected	Not Detected
Dimethylphthalate	5.0	0.78	Not Detected	Not Detected
Acenaphthylene	1.0	0.16	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.78	Not Detected	Not Detected
3-Nitroaniline	10	1.6	Not Detected	Not Detected
Acenaphthene	1.0	0.16	Not Detected	Not Detected
2,4-Dinitrophenol	40	6.2	Not Detected	Not Detected
4-Nitrophenol	40	6.2	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.78	Not Detected	Not Detected
Dibenzofuran	1.0	0.16	Not Detected	Not Detected
Diethylphthalate	5.0	0.78	1.5 J	0.23 J
Fluorene	1.0	0.16	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.16	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604173-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041121**	**Date of Collection:**	**4/8/16 9:57:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 11:35 PM**
		Date of Extraction:	**4/11/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.6	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.6	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.6	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.16	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.16	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.16	Not Detected	Not Detected
Anthracene	1.0	0.16	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.78	1.0 J	0.16 J
Fluoranthene	1.0	0.16	Not Detected	Not Detected
Pyrene	1.0	0.16	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.78	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.1	Not Detected	Not Detected
Chrysene	1.0	0.16	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.16	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.78	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.78	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.16	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.16	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.16	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.16	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.16	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.16	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	13 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	24 NJ
Bicyclo[4.2.0]octa-1,3,5-triene	694-87-1	96%	18 NJ
Heptane, 2,2,4-trimethyl-	14720-74-2	50%	18 NJ
Pentafluoropropionic acid, 2-ethylhexyl	1000280-14-6	45%	20 NJ
2-Pyrrolidinone, 1-methyl-	872-50-4	91%	58 NJ
Nonanal	124-19-6	90%	21 NJ
Benzene, 1,2,3,4-tetramethyl-	488-23-3	95%	12 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	86%	11 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	18 NJ

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[redacted]

Lab ID#: 1604173-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041121**	**Date of Collection: 4/8/16 9:57:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 11:35 PM**
		Date of Extraction: 4/11/16

Air Sample Volume(L): 6420

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	77	21-110
Phenol-d5	88	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	79	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	103	50-150
Fluoranthene-d10	103	50-150

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[redacted]

Lab ID#: 1604173-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041122**	**Date of Collection: 4/8/16 12:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:05 AM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	6.9	1.0
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	0.75 J	0.11 J
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	1.3	0.19
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.45 J	0.067 J
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	3.6 J	0.52 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604173-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041122**	**Date of Collection: 4/8/16 12:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:05 AM**
		Date of Extraction: 4/11/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	0.13 J	0.019 J
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	7.1	1.0
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	0.073 J	0.011 J
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Heptane, 2,2-dimethyl-	1071-26-7	59%	160 NJ
Tetradecane, 2,2-dimethyl-	59222-86-5	78%	96 NJ
Sulfurous acid, 2-ethylhexyl hexyl ester	1000309-20-2	80%	87 NJ
Decane, 2,2-dimethyl-	17302-37-3	78%	99 NJ
Limonene	138-86-3	89%	67 NJ
Nonane, 2-methyl-5-propyl-	31081-17-1	72%	130 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	150 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	64%	80 NJ
Decane, 3,7-dimethyl-	17312-54-8	72%	75 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	94%	240 NJ

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Lab ID#: 1604173-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041122**	**Date of Collection: 4/8/16 12:00:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:05 AM**
		Date of Extraction: 4/11/16

Air Sample Volume(L): 6820

NJ =The identification is based on presumptive evidence; estimated value.

Q = Exceeds Quality Control limits.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	21-110
Phenol-d5	116 Q	10-110
Nitrobenzene-d5	81	35-114
2,4,6-Tribromophenol	86	10-123
Fluorene-d10	79	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	100	50-150

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Lab ID#: 1604173-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041110**	**Date of Collection:**	**4/8/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 06:10 PM**
		Date of Extraction:	**4/11/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604173-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041110**	**Date of Collection: 4/8/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 06:10 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	14 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	28 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	12 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	8.8 NJ
1H-Imidazo[4,5-b]pyridin-2-amine, 5-meth	1000351-72-5	58%	4.0 NJ
Pyrido[2,3-d]pyrimidin-4(1H)-one	24410-19-3	39%	4.3 NJ
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	50%	9.3 NJ

Air Sample Volume(L): 6820

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

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Lab ID#: 1604173-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041110**	**Date of Collection:**	**4/8/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 06:10 PM**
		Date of Extraction:	**4/11/16**

Surrogates	%Recovery	Method Limits
2-Fluorophenol	62	21-110
Phenol-d5	70	10-110
Nitrobenzene-d5	76	35-114
2,4,6-Tribromophenol	71	10-123
Fluorene-d10	73	60-120
Pyrene-d10	91	60-120
Benzo(a)pyrene-d12	102	50-150
Fluoranthene-d10	107	50-150

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Lab ID#: 1604173-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:41 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.73	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.73	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.73	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.73	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.73	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.73	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.73	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.73	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.73	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.73	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.73	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604173-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:41 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.73	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.73	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.73	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.73	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	5.7 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	14 NJ
1H-Imidazo[4,5-b]pyridin-2-amine, 5-meth	1000351-72-5	70%	5.8 NJ
Pyrido[2,3-d]pyrimidin-4(1H)-one	24410-19-3	42%	6.5 NJ
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	59%	13 NJ

Air Sample Volume(L): 6820

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

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Lab ID#: 1604173-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:41 PM**	
		Date of Extraction: 4/11/16	

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	89	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	81	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	114	50-150
Fluoranthene-d10	112	50-150

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Lab ID#: 1604173-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	118
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
1,2-Dichlorobenzene	107
2-Methylphenol (o-Cresol)	113
bis(2-Chloroisopropyl) Ether	117
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	116
Hexachloroethane	112
Nitrobenzene	117
Isophorone	120
2-Nitrophenol	111
2,4-Dimethylphenol	115
Benzoic Acid	96
bis(2-Chloroethoxy) Methane	114
2,4-Dichlorophenol	115
1,2,4-Trichlorobenzene	108
Naphthalene	111
4-Chloroaniline	114
Hexachlorobutadiene	106
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	114
Hexachlorocyclopentadiene	105
2,4,6-Trichlorophenol	112
2,4,5-Trichlorophenol	123
2-Chloronaphthalene	110
2-Nitroaniline	128
Dimethylphthalate	114
Acenaphthylene	118
2,6-Dinitrotoluene	118
3-Nitroaniline	122
Acenaphthene	116
2,4-Dinitrophenol	90
4-Nitrophenol	124
2,4-Dinitrotoluene	130
Dibenzofuran	116
Diethylphthalate	121
Fluorene	118
4-Chlorophenyl-phenyl Ether	114

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Lab ID#: 1604173-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	125
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	104
4-Bromophenyl-phenyl Ether	105
Hexachlorobenzene	105
Pentachlorophenol	94
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	119
Fluoranthene	120
Pyrene	114
Butylbenzylphthalate	122
3,3'-Dichlorobenzidine	101
Chrysene	110
Benzo(a)anthracene	114
bis(2-Ethylhexyl)phthalate	123
Di-n-Octylphthalate	163 Q
Benzo(b)fluoranthene	140 Q
Benzo(k)fluoranthene	142 Q
Benzo(a)pyrene	139 Q
Indeno(1,2,3-c,d)pyrene	120
Dibenz(a,h)anthracene	121
Benzo(g,h,i)perylene	121

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	105	21-110
Phenol-d5	115	10-110
Nitrobenzene-d5	116	35-114
2,4,6-Tribromophenol	129	10-123
Fluorene-d10	115	60-120
Pyrene-d10	114	60-120
Benzo(a)pyrene-d12	140	50-150
Fluoranthene-d10	123	50-150

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[redacted]

Lab ID#: 1604173-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:12 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
Phenol	80	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	77	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	71	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	88	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	73	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	92	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	84	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	68	10-80
2,4-Dinitrotoluene	90	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604173-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:12 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	25	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	102	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	77	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604173-06AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:41 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
Phenol	87	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	83	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	77	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	94	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	79	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	96	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	89	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	70	10-80
2,4-Dinitrotoluene	94	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604173-06AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:41 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	26	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	107	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	87	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	82	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	108	50-150

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4-8-16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Robin Fomalont / Wallace Sconces – Samplers

Rotameter: Sho-Rate **Serial # :** 001292 **Expiration Date:** 5-4-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							WBS 4-8-16 - See*
~~74-ST~~ *	↓	↓	4.8	–	0928	–	–	–	N.E corner of home – 1st floor * Resident reported that the sorbent tube fell off and broke during test - Excluded
1A 43-ST			4.8	4.3	1027	0957	1410	6415.5	North west corner - dining / living room table
4A 125-ST			4.8	4.7	1203	1200	1437	6825.8	N. office near door
3A 125-ST-FB	↓	↓					–	–	–

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 2.8°C
FedEX

Relinquished by: Wallace Sconces	**Date:** 4-8-16	**Time:** 1401	**Received by:**	**Date:** 4/8/16	**Time:** 1415
Relinquished by:	**Date:**	**Time:**	**Received by:** WHEATL	**Date:** 4-9-16	**Time:** 0920
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604173

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4/14/2016
Meredith Church
Leighton Consulting, Inc.
17781 Cowan

Irvine CA 92614

Project Name:
Project #: 603287048
Workorder #: 1604174

Dear Meredith Church

The following report includes the data for the above referenced project for sample(s) received on 4/9/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1604174

Work Order Summary

CLIENT:	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614	**BILL TO:**	Meredith Church Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614
PHONE:	949-477-4040	**P.O. #**	603287.048
FAX:	949-250-1114	**PROJECT #**	603287048
DATE RECEIVED:	04/09/2016	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/14/2016		

FRACTION #	NAME	TEST
01A	26-ST	Modified TO-13A
02A	24-ST	Modified TO-13A
03A	24-ST-FB	Modified TO-13A
04A	Lab Blank	Modified TO-13A
05A	CCV	Modified TO-13A
06A	LCS	Modified TO-13A
06AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 04/14/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Leighton Consulting, Inc.
Workorder# 1604174

Three PUF/XAD Cartridge-Low Volume samples were received on April 09, 2016. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-160 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 4/4/16 and 4/6/16.

Sampling volumes were supplied by the client. A sample volume of 6787 L was used to report the sample 24-ST-FB and the Lab Blank.

Due to the Method Detection Limit study performed on the instrument, the reporting limits for 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, and 4-Nitrophenol were raised to 10ug, 40ug, and 40ug, respectively.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the sorbent media was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target

compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to unacceptable linearity in the Initial Calibration, Pentachlorophenol was quantitated using a 3-point calibration with the lowest calibration point at the 80ug. Results for Pentachlorophenol are reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604174-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	8.0	1.2
Naphthalene	1.0	0.15	0.40 J	0.059 J
Diethylphthalate	5.0	0.74	2.9 J	0.43 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	35 NJ
Ethanol, 2-butoxy-	111-76-2	91%	19 NJ
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	86%	6.5 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	13 NJ
Nonanal	124-19-6	91%	8.4 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	15 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	96%	8.0 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	5.8 NJ

[redacted]

Lab ID#: 1604174-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.7	0.85
Naphthalene	1.0	0.15	4.4	0.65
2-Methylnaphthalene	1.0	0.15	0.64 J	0.096 J
Diethylphthalate	5.0	0.74	1.5 J	0.22 J
di-n-Butylphthalate	5.0	0.74	0.96 J	0.14 J

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	26 NJ
Undecane, 2,2-dimethyl-	17312-64-0	78%	23 NJ
Limonene	138-86-3	93%	68 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	78%	44 NJ

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

[redacted]

Lab ID#: 1604174-02A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	56 NJ
Octane, 2,6-dimethyl-	2051-30-1	72%	40 NJ
Cyclopentanecarboxylic acid, 6-ethyl-3-o	1000282-59-2	35%	20 NJ
Dodecane, 2,7,10-trimethyl-	74645-98-0	50%	44 NJ
Dodecane, 2,6,10-trimethyl-	3891-98-3	72%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	46 NJ

[redacted]

Lab ID#: 1604174-03A

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	33 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	4.2 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	6.8 NJ
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	50%	7.7 NJ

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[redacted]

Lab ID#: 1604174-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041123**	**Date of Collection: 4/8/16 8:16:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:34 AM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	8.0	1.2
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	0.40 J	0.059 J
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	2.9 J	0.43 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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[redacted]

Lab ID#: 1604174-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041123**	**Date of Collection: 4/8/16 8:16:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:34 AM**
		Date of Extraction: 4/11/16

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	16 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	50%	35 NJ
Ethanol, 2-butoxy-	111-76-2	91%	19 NJ
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	86%	6.5 NJ
Cyclohexene, 1-methyl-4-(1-methylethenyl	5989-54-8	95%	13 NJ
Nonanal	124-19-6	91%	8.4 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	15 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	15 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	96%	8.0 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	5.8 NJ

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Lab ID#: 1604174-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041123**	**Date of Collection: 4/8/16 8:16:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 12:34 AM**
		Date of Extraction: 4/11/16

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	21-110
Phenol-d5	83	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	85	10-123
Fluorene-d10	80	60-120
Pyrene-d10	89	60-120
Benzo(a)pyrene-d12	97	50-150
Fluoranthene-d10	104	50-150

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Lab ID#: 1604174-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041124**	**Date of Collection:**	**4/8/16 10:10:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/12/16 01:04 AM**
		Date of Extraction:	**4/11/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	5.7	0.85
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.5	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	4.4	0.65
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	0.64 J	0.096 J
Hexachlorocyclopentadiene	20	3.0	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	1.5 J	0.22 J
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604174-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041124**	**Date of Collection:**	**4/8/16 10:10:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/12/16 01:04 AM**
		Date of Extraction:	**4/11/16**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	0.96 J	0.14 J
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	3.0	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

J = Estimated value.

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	26 NJ
Undecane, 2,2-dimethyl-	17312-64-0	78%	23 NJ
Limonene	138-86-3	93%	68 NJ
Nonane, 3-methyl-5-propyl-	31081-18-2	78%	44 NJ
Hexane, 2,2,5-trimethyl-	3522-94-9	72%	56 NJ
Octane, 2,6-dimethyl-	2051-30-1	72%	40 NJ
Cyclopentanecarboxylic acid, 6-ethyl-3-o	1000282-59-2	35%	20 NJ
Dodecane, 2,7,10-trimethyl-	74645-98-0	50%	44 NJ
Dodecane, 2,6,10-trimethyl-	3891-98-3	72%	18 NJ
Cyclopentasiloxane, decamethyl-	541-02-6	91%	46 NJ

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Lab ID#: 1604174-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041124**	**Date of Collection: 4/8/16 10:10:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/12/16 01:04 AM**
		Date of Extraction: 4/11/16

Air Sample Volume(L): 6730

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	21-110
Phenol-d5	88	10-110
Nitrobenzene-d5	86	35-114
2,4,6-Tribromophenol	82	10-123
Fluorene-d10	80	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	95	50-150

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Lab ID#: 1604174-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041111**	**Date of Collection: 4/8/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 06:40 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604174-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041111**	**Date of Collection: 4/8/16**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 06:40 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	18 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	33 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	83%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	4.2 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	6.8 NJ
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	50%	7.7 NJ

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits

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Lab ID#: 1604174-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041111**	**Date of Collection:**	**4/8/16**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/11/16 06:40 PM**
		Date of Extraction:	**4/11/16**

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	21-110
Phenol-d5	79	10-110
Nitrobenzene-d5	84	35-114
2,4,6-Tribromophenol	66	10-123
Fluorene-d10	78	60-120
Pyrene-d10	90	60-120
Benzo(a)pyrene-d12	93	50-150
Fluoranthene-d10	101	50-150

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Lab ID#: 1604174-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:41 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.15	Not Detected	Not Detected
2-Chlorophenol	5.0	0.74	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.15	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.74	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.15	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.15	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.74	Not Detected	Not Detected
Hexachloroethane	1.0	0.15	Not Detected	Not Detected
Nitrobenzene	1.0	0.15	Not Detected	Not Detected
Isophorone	1.0	0.15	Not Detected	Not Detected
2-Nitrophenol	5.0	0.74	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.74	Not Detected	Not Detected
Benzoic Acid	30	4.4	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.15	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.74	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.15	Not Detected	Not Detected
Naphthalene	1.0	0.15	Not Detected	Not Detected
4-Chloroaniline	10	1.5	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.15	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.74	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.15	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	2.9	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.74	Not Detected	Not Detected
2,4,5-Trichlorophenol	10	1.5	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.15	Not Detected	Not Detected
2-Nitroaniline	10	1.5	Not Detected	Not Detected
Dimethylphthalate	5.0	0.74	Not Detected	Not Detected
Acenaphthylene	1.0	0.15	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
3-Nitroaniline	10	1.5	Not Detected	Not Detected
Acenaphthene	1.0	0.15	Not Detected	Not Detected
2,4-Dinitrophenol	40	5.9	Not Detected	Not Detected
4-Nitrophenol	40	5.9	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.74	Not Detected	Not Detected
Dibenzofuran	1.0	0.15	Not Detected	Not Detected
Diethylphthalate	5.0	0.74	Not Detected	Not Detected
Fluorene	1.0	0.15	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected

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Lab ID#: 1604174-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:41 PM**	
		Date of Extraction: 4/11/16	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
4-Nitroaniline	10	1.5	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	1.5	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	1.5	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.15	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.15	Not Detected	Not Detected
Pentachlorophenol	80	12	Not Detected	Not Detected
Phenanthrene	1.0	0.15	Not Detected	Not Detected
Anthracene	1.0	0.15	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.74	Not Detected	Not Detected
Fluoranthene	1.0	0.15	Not Detected	Not Detected
Pyrene	1.0	0.15	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.74	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	2.9	Not Detected	Not Detected
Chrysene	1.0	0.15	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.15	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.74	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.74	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.15	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.15	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.15	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.15	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.15	Not Detected	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ug)
Tetrachloroethylene	127-18-4	98%	20 NJ
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	59%	36 NJ
2-Propenoic acid, 2-ethylhexyl ester	103-11-7	90%	14 NJ
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	99%	5.7 NJ
1,3-Benzenediamine, 4-methyl-	95-80-7	97%	14 NJ
1H-Imidazo[4,5-b]pyridin-2-amine, 5-meth	1000351-72-5	70%	5.8 NJ
Pyrido[2,3-d]pyrimidin-4(1H)-one	24410-19-3	42%	6.5 NJ
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	59%	13 NJ

Air Sample Volume(L): 6790

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: NA - Not Applicable

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Lab ID#: 1604174-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 05:41 PM**	
		Date of Extraction: 4/11/16	

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	89	35-114
2,4,6-Tribromophenol	72	10-123
Fluorene-d10	81	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	114	50-150
Fluoranthene-d10	112	50-150

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Lab ID#: 1604174-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
Phenol	118
bis(2-Chloroethyl) Ether	110
2-Chlorophenol	109
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
1,2-Dichlorobenzene	107
2-Methylphenol (o-Cresol)	113
bis(2-Chloroisopropyl) Ether	117
N-Nitroso-di-n-propylamine	120
4-Methylphenol/3-Methylphenol	116
Hexachloroethane	112
Nitrobenzene	117
Isophorone	120
2-Nitrophenol	111
2,4-Dimethylphenol	115
Benzoic Acid	96
bis(2-Chloroethoxy) Methane	114
2,4-Dichlorophenol	115
1,2,4-Trichlorobenzene	108
Naphthalene	111
4-Chloroaniline	114
Hexachlorobutadiene	106
4-Chloro-3-methylphenol	124
2-Methylnaphthalene	114
Hexachlorocyclopentadiene	105
2,4,6-Trichlorophenol	112
2,4,5-Trichlorophenol	123
2-Chloronaphthalene	110
2-Nitroaniline	128
Dimethylphthalate	114
Acenaphthylene	118
2,6-Dinitrotoluene	118
3-Nitroaniline	122
Acenaphthene	116
2,4-Dinitrophenol	90
4-Nitrophenol	124
2,4-Dinitrotoluene	130
Dibenzofuran	116
Diethylphthalate	121
Fluorene	118
4-Chlorophenyl-phenyl Ether	114

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[redacted]

Lab ID#: 1604174-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 02:43 PM**
		Date of Extraction: NA

Compound	%Recovery
4-Nitroaniline	125
4,6-Dinitro-2-methylphenol	112
N-Nitrosodiphenylamine	104
4-Bromophenyl-phenyl Ether	105
Hexachlorobenzene	105
Pentachlorophenol	94
Phenanthrene	112
Anthracene	114
di-n-Butylphthalate	119
Fluoranthene	120
Pyrene	114
Butylbenzylphthalate	122
3,3'-Dichlorobenzidine	101
Chrysene	110
Benzo(a)anthracene	114
bis(2-Ethylhexyl)phthalate	123
Di-n-Octylphthalate	163 Q
Benzo(b)fluoranthene	140 Q
Benzo(k)fluoranthene	142 Q
Benzo(a)pyrene	139 Q
Indeno(1,2,3-c,d)pyrene	120
Dibenz(a,h)anthracene	121
Benzo(g,h,i)perylene	121

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	105	21-110
Phenol-d5	115	10-110
Nitrobenzene-d5	116	35-114
2,4,6-Tribromophenol	129	10-123
Fluorene-d10	115	60-120
Pyrene-d10	114	60-120
Benzo(a)pyrene-d12	140	50-150
Fluoranthene-d10	123	50-150

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[redacted]

Lab ID#: 1604174-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:12 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
Phenol	80	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	77	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	71	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	88	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	73	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	92	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	84	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	68	10-80
2,4-Dinitrotoluene	90	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604174-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:12 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	25	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	102	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	21-110
Phenol-d5	77	10-110
Nitrobenzene-d5	80	35-114
2,4,6-Tribromophenol	80	10-123
Fluorene-d10	77	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	108	50-150

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[redacted]

Lab ID#: 1604174-06AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:41 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
Phenol	87	12-127
bis(2-Chloroethyl) Ether	Not Spiked	
2-Chlorophenol	83	27-123
1,3-Dichlorobenzene	Not Spiked	
1,4-Dichlorobenzene	77	36-97
1,2-Dichlorobenzene	Not Spiked	
2-Methylphenol (o-Cresol)	Not Spiked	
bis(2-Chloroisopropyl) Ether	Not Spiked	
N-Nitroso-di-n-propylamine	94	41-116
4-Methylphenol/3-Methylphenol	Not Spiked	
Hexachloroethane	Not Spiked	
Nitrobenzene	Not Spiked	
Isophorone	Not Spiked	
2-Nitrophenol	Not Spiked	
2,4-Dimethylphenol	Not Spiked	
Benzoic Acid	Not Spiked	
bis(2-Chloroethoxy) Methane	Not Spiked	
2,4-Dichlorophenol	Not Spiked	
1,2,4-Trichlorobenzene	79	39-98
Naphthalene	Not Spiked	
4-Chloroaniline	Not Spiked	
Hexachlorobutadiene	Not Spiked	
4-Chloro-3-methylphenol	96	23-123
2-Methylnaphthalene	Not Spiked	
Hexachlorocyclopentadiene	Not Spiked	
2,4,6-Trichlorophenol	Not Spiked	
2,4,5-Trichlorophenol	Not Spiked	
2-Chloronaphthalene	Not Spiked	
2-Nitroaniline	Not Spiked	
Dimethylphthalate	Not Spiked	
Acenaphthylene	Not Spiked	
2,6-Dinitrotoluene	Not Spiked	
3-Nitroaniline	Not Spiked	
Acenaphthene	89	60-120
2,4-Dinitrophenol	Not Spiked	
4-Nitrophenol	70	10-80
2,4-Dinitrotoluene	94	24-96
Dibenzofuran	Not Spiked	
Diethylphthalate	Not Spiked	
Fluorene	Not Spiked	
4-Chlorophenyl-phenyl Ether	Not Spiked	

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[redacted]

Lab ID#: 1604174-06AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12041107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/16 04:41 PM**	
		Date of Extraction: 4/11/16	

Compound	%Recovery	Method Limits
4-Nitroaniline	Not Spiked	
4,6-Dinitro-2-methylphenol	Not Spiked	
N-Nitrosodiphenylamine	Not Spiked	
4-Bromophenyl-phenyl Ether	Not Spiked	
Hexachlorobenzene	Not Spiked	
Pentachlorophenol	26	9-103
Phenanthrene	Not Spiked	
Anthracene	Not Spiked	
di-n-Butylphthalate	Not Spiked	
Fluoranthene	Not Spiked	
Pyrene	107	60-120
Butylbenzylphthalate	Not Spiked	
3,3'-Dichlorobenzidine	Not Spiked	
Chrysene	Not Spiked	
Benzo(a)anthracene	Not Spiked	
bis(2-Ethylhexyl)phthalate	Not Spiked	
Di-n-Octylphthalate	Not Spiked	
Benzo(b)fluoranthene	Not Spiked	
Benzo(k)fluoranthene	Not Spiked	
Benzo(a)pyrene	Not Spiked	
Indeno(1,2,3-c,d)pyrene	Not Spiked	
Dibenz(a,h)anthracene	Not Spiked	
Benzo(g,h,i)perylene	Not Spiked	

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	21-110
Phenol-d5	84	10-110
Nitrobenzene-d5	87	35-114
2,4,6-Tribromophenol	84	10-123
Fluorene-d10	82	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	110	50-150
Fluoranthene-d10	108	50-150

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048** **Date:** 4/7/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Shannon Hill, Lucas Wallin
	Rotameter: **Serial # :** 001154	**Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/7	Stop Time 4/8	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – ST (19-ST)	Sorbent Tube	SVOCs TO-13A							
			Avg:						
01A 26-ST	"	"	4.8	4.8	0842	0816	1414	6787.2	dining room
			Avg: 4.8						
02A 24-ST	"	"	4.7	4.8	1034	1010	1416	6726	dining room
			Avg: 4.75						
3A 24-ST-FB	"	"							Blank
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Eurofins Air Toxics, Inc.
180 Blue Ravine Road, Suite B, Folsom, CA 95630, Phone: +916 605 3339

Custody Seal Intact?
Y N None Temp 2.8°c
FedEx

Relinquished by:	**Date:** 4/8/16	**Time:** 1240	**Received by:**	**Date:** 4/9/16	**Time:** 1244
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4-9-16	**Time:** 0920
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

1604174

Air Samples – Metals and Total Dust

Wipe Samples – Metals and Total Hydrocarbons

(4/5/16 and 4/7/16)

Leighton

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 04, 2016

DOH ELAP #11626 Account# 30549 Login# L371169
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 01, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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East Syracuse, NY 13057
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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-1@ **Air Volume : 2774 Liter**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-1@ **Air Volume : 2774 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-1@ **Air Volume : 2774 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-2@ **Air Volume : 2752 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-2@ **Air Volume : 2752 Liter**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Lab ID : L371169-2@ **Air Volume : 2752 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Lab ID : L371169-3@ **Air Volume : 2802 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-3@ **Air Volume : 2802 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-3@ **Air Volume : 2802 Liter**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-4@ **Air Volume : 2790 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-4@ **Air Volume : 2790 Liter**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-4@ **Air Volume : 2790 Liter**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-5@ **Air Volume : 2784 Liter**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-5@ **Air Volume : 2784 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-5@ **Air Volume : 2784 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

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< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Lab ID : L371169-6@ **Air Volume : 2784 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-6@ **Air Volume : 2784 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Lab ID : L371169-6@ **Air Volume : 2784 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

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East Syracuse, NY 13057
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-7@ **Air Volume : 2826 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted] **Lab ID : L371169-7@** **Air Volume : 2826 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-7@ **Air Volume : 2826 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted] **Lab ID : L371169-8@** **Air Volume : 2814 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-8@ **Air Volume : 2814 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-8@ **Air Volume : 2814 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-9@ **Air Volume : NA**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted] **Lab ID : L371169-9@** **Air Volume : NA**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-9@ **Air Volume : NA**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-10@ **Air Volume : NA**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]
Date Sampled : 03/29/16

Lab ID : L371169-10@ **Air Volume : NA**
Date Analyzed : 04/01/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929984

[redacted]

Lab ID : L371169-10@ **Air Volume : NA**

Date Sampled : 03/29/16 **Date Analyzed : 04/01/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371169

Date Analyzed : 01-APR-16
Report ID : 929841

Total Dust

[redacted]	Lab ID	Air Vol liter	Total mg	Conc mg/m3
	L371169-1	2774	<0.050	<0.018
	L371169-2	2752	<0.050	<0.018
	L371169-3	2802	<0.050	<0.018
	L371169-4	2790	<0.050	<0.018
	L371169-5	2784	<0.050	<0.018
	L371169-6	2784	<0.050	<0.018
	L371169-7	2826	0.074	0.026
	L371169-8	2814	0.050	0.018
	L371169-9	NA	<0.050	NA
	L371169-10	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 01-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371169
Date Analyzed: 01-APR-16

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.
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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371169 (Report ID: 929984):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371169 (Report ID: 929984):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371169
Date Analyzed: 01-APR-16

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-10.7%	101%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-13.3%	100%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371169
Date Analyzed: 01-APR-16

Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16
Date Received: 01-APR-16
Date Analyzed: 01-APR-16

Account No.: 30549
Login No. : L371169

L371169 (Report ID: 929984):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371169 (Report ID: 929841):
SOPs: GRAV-SOP-5(15)
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.
PNOR = Particulates Not Otherwise Regulated.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

Date: 04/01/16
Shipper: FEDEX
Initials: SK
Prep: UNKNOWN

*see attached for metals list. SS

R112

L371169

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3/29/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Camilla Westberg/Hovanes Dekeyan

Rotameter: 001336 **Serial # :** 442371 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
			CW 3/29/16			CW 3/30/16			
~~113-PVC~~ CW 3/30/16	VOID		~~0934~~	2.0	0934	~~0924~~			Dining Rm table, ~3ft tall, N side of house
			Avg: 2.0		Resident	un	plugged	pumps	
120-PVC	PVC Filter	NIOSH 500/7300, Particulates + all comp metals	2.0	2.0	1017	0924	1387	2774	Dining Rm table, ~3.5ft tall, N. side of house
			Avg:	2.0					
110-PVC			2.0	2.0	1108	0934	1376	2752	Breakfast table in kitchen area ~3.5ft tall, NE side of house
			Avg:	2.0					
CW 3/29/16 ~~WIP~~ 121-PVC			2.0	2.0	1224	1145	1401	2802	Dining Rm table. ~3.5ft tall N side of house
			Avg:	2.0		.			

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SK 4/1/16

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	**Date:** 3/30/16	**Time:** 1745	**Received by:**		**Date:** 3/30/16	**Time:** 1801
Relinquished by:	**Date:**	**Time:**	**Received by:**		**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**		**Date:** 4/1/16	**Time:** 1018

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/29/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg/Hovaness Dekeyan
	Rotameter: 001336 Serial # : 442371	Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre.	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
39-PVC	↓	↓	2.0	2.0	1601	1516	1395	2790	Kitchen table, ~3.5ft tall, 2 ft from S. side of house
			Avg: 2.0						
39-PVCD	↓	↓	2.0	2.0	1602	1514	1392	2784	Kitchen table, ~3.5ft tall S. side of house
			Avg: 2.0						
90-PVC	↓	↓	2.0	2.0	1612	1554	1392	2784	Dining table by kitchen 4ft tall. N side of house
			Avg: 2.0						
35-PVC	↓	↓	2.0	2.0	1722	1655	1413	2826	Dining table in living Rm. ~3.5ft tall. center of house
			Avg: 2.0						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SK 4/1/16

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	Date: 3/30/16	Time: 1745	Received by: [signature]	Date: 3/30/16	Time: 1801
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: [signature]	Date: 4/1/16	Time: 1018

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Hovanes Dekeyan	
	Rotameter: 001336 Serial # : 442371	Expiration Date: 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
94-PVC			2.0	2.0	1754	1711	1407	2814	Dining table in living rm. ~3.5ft tall. East side of house
			Avg:						
TB-1B							0	0	Trip blank 3/29/16
			Avg:						
FB-1B							0	0	Field blank 3/29/16
			Avg:						
									SK 4/1/16

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	Date: 3/30/16	Time: 1745	Received by: [signature]	Date: 3/30/16	Time: 1801
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: [signature]	Date: 4/1/16	Time: 1010

From: Gray, Kathleen (Syracuse)
Sent: Friday, April 01, 2016 11:34 AM
To: Gregorich, Patricia (Stevens Point)
Cc: Harris, Michelle (Syracuse); Larrabee, Jennifer (Syracuse); Weaver, Pamela (Syracuse); Swab, Lisa (Syracuse); Unangst, Mary (Syracuse); MacDuff, Denise (Syracuse); Kennedy, Cameron (Syracuse); Dermott, Dorothy (Syracuse)
Subject: RE: 33 metals by NIOSH 7300

Hi Patty,

The complete list of compatible, recommended elements on a PVC filter are (35 elements):
Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y

Since it was indicated that ICPMS level was needed, then the following would require ICPMS product codes
As, Ba, Be, Cd, Co, Mo, Ni, Pb, Tl

Thanks
Kathi

Kathleen Gray
Environment, Health, & Safety
Section Supervisor Metals

Business Phone: +1 315 671 3914
Fax: +1 315 437 0571
E-mail: Kathleen.Gray@sgs.com
Time Zone: UTC -5, U.S. Eastern

Please consider the environment when printing this email.

From: Gregorich, Patricia (Stevens Point)
Sent: Friday, April 01, 2016 11:23 AM
To: Gray, Kathleen (Syracuse)
Cc: Harris, Michelle (Syracuse); Larrabee, Jennifer (Syracuse); Weaver, Pamela (Syracuse); Swab, Lisa (Syracuse); Unangst, Mary (Syracuse); MacDuff, Denise (Syracuse)
Subject: 33 metals by NIOSH 7300

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 04, 2016

DOH ELAP #11626 Account# 30549 Login# L371172
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 01, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Lab ID : L371172-1@ **Air Volume : 2858 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Lab ID : L371172-1@ **Air Volume : 2858 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Lab ID : L371172-1@ **Air Volume : 2858 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-2@ **Air Volume : 2808 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-2@ **Air Volume : 2808 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-2@ **Air Volume : 2808 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-3@ **Air Volume : 2832 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 29-MAR-16
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Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-3@ **Air Volume : 2832 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-3@ **Air Volume : 2832 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-4@ **Air Volume : NA**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-4@ **Air Volume : NA**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Lab ID : L371172-4@ **Air Volume : NA**
Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-5@ **Air Volume : 2838 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted] **Lab ID : L371172-5@** **Air Volume : 2838 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-5@ **Air Volume : 2838 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-6@ **Air Volume : 2825 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-6@ **Air Volume : 2825 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-6@ **Air Volume : 2825 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-7@ **Air Volume : 2769 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Lab ID : L371172-7@ **Air Volume : 2769 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-7@ **Air Volume : 2769 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-8@ **Air Volume : 2848 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-8@ **Air Volume : 2848 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-8@ **Air Volume : 2848 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-9@ **Air Volume : 2747 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-9@ **Air Volume : 2747 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-9@ **Air Volume : 2747 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Date Sampled : 03/29/16

Lab ID : L371172-10@ **Air Volume : 2897 Liter**
Date Analyzed : 04/02/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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East Syracuse, NY 13057
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]
Lab ID : L371172-10@ **Air Volume : 2897 Liter**
Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16 - 02-APR-16
Report ID : 929985

[redacted]

Lab ID : L371172-10@ **Air Volume : 2897 Liter**

Date Sampled : 03/29/16 **Date Analyzed : 04/02/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: JMR/MHL/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Client : Leighton Consulting, Inc
Site : NS
Project No. : 603287048
Date Sampled : 29-MAR-16
Date Received : 01-APR-16

Account No.: 30549
Login No. : L371172

Date Analyzed : 01-APR-16
Report ID : 929842

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371172-1	2858	<0.050	<0.017
L371172-2	2808	<0.050	<0.018
L371172-3	2832	<0.050	<0.018
L371172-4	NA	<0.050	NA
L371172-5	2838	<0.050	<0.018
L371172-6	2825	<0.050	<0.018
L371172-7	2769	<0.050	<0.018
L371172-8	2848	0.073	0.026
L371172-9	2747	0.057	0.021
L371172-10	2897	<0.050	<0.017

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 01-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371172
Date Analyzed: 01-APR-16 - 02-APR-16

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.
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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371172 (Report ID: 929985):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371172 (Report ID: 929985):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371172
Date Analyzed: 01-APR-16 - 02-APR-16

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-10.7%	101%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-13.3%	100%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371172
Date Analyzed: 01-APR-16 - 02-APR-16

Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site :
Project No. : 603287048

Date Sampled : 29-MAR-16 Account No.: 30549
Date Received: 01-APR-16 Login No. : L371172
Date Analyzed: 01-APR-16 - 02-APR-16

L371172 (Report ID: 929985):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371172 (Report ID: 929842):
SOPs: GRAV-SOP-5(15)
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.
PNOR = Particulates Not Otherwise Regulated.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

*see attached for metals list

C371172

R111

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 3/29/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist:

Rotameter: 194588-00 **Serial # :**

Expiration Date: 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
54-PVC	PVC filter	Niosh 500/7300 particulates and all comp metals	2.0	2.0	0858	0847	1429	2858	dining room table Zefon
			Avg: 2						
45-PVC DM 86	PVC filter	Niosh 500/7300 particulates/ metals	2.0	2.0	1014	0938	1404	2808	dining room (no furniture)
			Avg: 2						
22-PVC	PVC filter	NIOSH 500/7300 Part./metals	2.0	2.0	1039	1015	1416	2832	dining room table
			Avg: 2						
22-PVC-FB	PVC filter	NIOSH 500/7300 particulates metals							Blank
			Avg:						

807588546450
Date:04/01/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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SK 4/1/16

Relinquished by:	**Date:** 3/30/16	**Time:** 1741	**Received by:**	**Date:** 3/30/16	**Time:** 17:51
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/1/16	**Time:** 1018

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/29/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez
	Rotameter: 194588-00 Serial # :	Expiration Date: 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
22-PVC-TB	PVC Filter	NIOSH 500/7300 Particulates + metals							blank VOID
			Avg:						
30-PVC	PVC Filter	NIOSH 5001 7300 particulates and metals	2	2	1308	1247	119	2838	NW and floor bedroom Zeph
			Avg: 2						
30-PVC-D	PVC Filter	NIOSH 500/7300 particulates + metals	2	1.9	1308	1247	119	~~2838~~ 2825	NW and floor bedroom
			Avg: 1.95						
65-PVC	11	11	2	1.9	1515	1455	1420	2769	dining room table
			Avg: 1.95						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SK 4/1/16

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 3/30/16	Time: 1941	Received by:	Date: 3/30/16	Time: 17:51
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/1/16	Time: 1010

AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Rebeca Vasquez	
	Rotameter: 194558-00 Serial # :	Expiration Date: 5/15/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
05-PVC-EXT	PVC Filter	Niosh 500/7300	2	2.0	1522	1506	1424	2848	~~dining room table~~ patio table
			Avg:	2					
82-PVC	11	11	2	1.9	1603	1532	1409	2747	fireplace, front
			Avg:	1.95					
76-PVC	PVC Filter	NIOSH 0500/7300	2	2.1	1726	1659	1413	2897	Dining Room, Middle of Room
			Avg:	2.05					
			Avg:						

Zefon

SK 4/1/16

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 3/30/16	Time: 1741	Received by:	Date: 3/30/16	Time: 17:51
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/1/16	Time: 1018

From: Gray, Kathleen (Syracuse)
Sent: Friday, April 01, 2016 11:34 AM
To: Gregorich, Patricia (Stevens Point)
Cc: Harris, Michelle (Syracuse); Larrabee, Jennifer (Syracuse); Weaver, Pamela (Syracuse); Swab, Lisa (Syracuse); Unangst, Mary (Syracuse); MacDuff, Denise (Syracuse); Kennedy, Cameron (Syracuse); Dermott, Dorothy (Syracuse)
Subject: RE: 33 metals by NIOSH 7300

Hi Patty,

The complete list of compatible, recommended elements on a PVC filter are (35 elements):
Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y

Since it was indicated that ICPMS level was needed, then the following would require ICPMS product codes
As, Ba, Be, Cd, Co, Mo, Ni, Pb, Tl

Thanks
Kathi

Kathleen Gray
Environment, Health, & Safety
Section Supervisor Metals

Business Phone: +1 315 671 3914
Fax: +1 315 437 0571
E-mail: Kathleen.Gray@sgs.com
Time Zone: UTC -5, U.S. Eastern

Please consider the environment when printing this email.

From: Gregorich, Patricia (Stevens Point)
Sent: Friday, April 01, 2016 11:23 AM
To: Gray, Kathleen (Syracuse)
Cc: Harris, Michelle (Syracuse); Larrabee, Jennifer (Syracuse); Weaver, Pamela (Syracuse); Swab, Lisa (Syracuse); Unangst, Mary (Syracuse); MacDuff, Denise (Syracuse)
Subject: 33 metals by NIOSH 7300

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 05, 2016

DOH ELAP #11626 Account# 30549 Login# L371318
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 04, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

SGS GALSON LABORATORIES

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-1@ **Air Volume : 2838 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-1@ **Air Volume : 2838 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-1@ **Air Volume : 2838 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-2@ **Air Volume : 2832 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-2@ **Air Volume : 2832 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-2@ **Air Volume : 2832 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-3@ **Air Volume : 2737.8 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-3@ **Air Volume : 2737.8 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-3@ **Air Volume : 2737.8 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-4@ **Air Volume : 2761.2 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-4@ **Air Volume : 2761.2 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-4@ **Air Volume : 2761.2 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-5@ **Air Volume : 2810 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-5@ **Air Volume : 2810 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-5@ **Air Volume : 2810 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-6@ **Air Volume : 2824 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-6@ **Air Volume : 2824 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-6@ **Air Volume : 2824 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-7@ **Air Volume : 2850 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-7@ **Air Volume : 2850 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-8@ **Air Volume : 2850 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-7@ **Air Volume : 2850 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-8@ **Air Volume : 2850 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-8@ **Air Volume : 2850 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-9@ **Air Volume : 2800 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-9@ **Air Volume : 2800 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-9@ **Air Volume : 2800 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-10@ **Air Volume : NA**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-10@ **Air Volume : NA**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-10@ **Air Volume : NA**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-11@ **Air Volume : NA**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]

Lab ID : L371318-11@ **Air Volume : NA**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930169

[redacted]
Date Sampled : 03/31/16

Lab ID : L371318-11@ **Air Volume : NA**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371318

Date Analyzed : 04-APR-16
Report ID : 930037

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371318-1	2838	<0.050	<0.018
L371318-2	2832	<0.050	<0.018
L371318-3	2737.8	<0.050	<0.018
L371318-4	2761.2	<0.050	<0.018
L371318-5	2810	0.050	0.018
L371318-6	2824	<0.050	<0.018
L371318-7	2850	<0.050	<0.018
L371318-8	2850	<0.050	<0.018
L371318-9	2800	<0.050	<0.018
L371318-10	NA	<0.050	NA
L371318-11	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 04-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371318
Date Analyzed: 04-APR-16 - 05-APR-16

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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371318 (Report ID: 930169):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371318 (Report ID: 930169):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371318
Date Analyzed: 04-APR-16 - 05-APR-16

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-12.2%	100%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371318
Date Analyzed: 04-APR-16 - 05-APR-16

L371318 (Report ID: 930169):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371318 (Report ID: 930037):
SOPs: GRAV-SOP-5(15)
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.
PNOR = Particulates Not Otherwise Regulated.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

807588546471
Date:04/04/16
Shipper:FEDEX
Initials:DD
Prep:UNKNOWN

L371318

R83

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3-31-16

Project Location: Aliso Canyon Wallace Stevens, Joel Berman, Ingrid Zubieta

Client Reference: Los Angeles County **Industrial Hygienist:** Robert Vasquez

Rotameter: Dick Mumm Co. **Serial # :** 001336 **Expiration Date:** 3-21-2017

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter NG mg 4/4/16	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
19-PVC			2.0	2.0	0816	0755	1419	2838	Living room (1st floor)
			Avg:	2.0					
40-PVC			2.0	2.0	0903	0839	1416	2832	East Dining Room (1st floor)
			Avg:	2.0					
52-PVC			2.0	1.9	0932	0856	1404	2737.8	East Dining Room (1st floor)
			Avg:	1.95	3-31-16				
15-PVC			2.0	1.9	~~1042~~ 1044	1020	1416	2761.2	East Dining Room (1st floor)
			Avg:	1.95					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Compatible metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La Li, Te, U, Y. mg 4/5/16

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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Stevens	**Date:** 4-1-16	**Time:** 1750	**Received by:**	**Date:** 4/1/16	**Time:** 1751
Relinquished by:	**Date:** 4/1/16	**Time:** 1807	**Received by:**	**Date:** 4/1/16	**Time:** 1800
Relinquished by: ~~Stella Gallo~~ to Fed Ex	**Date:** ~~4/2/16~~	**Time:**	**Received by:** Murray Hays	**Date:** 4/4/16	**Time:** 931

Report Reference: Generated:05-APR-16 11:20

2 / WBS 4-1-16

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3-31-16
	Project Location: Aliso Canyon	Wallace Scovins, Joel Berman, INGRID ZUBIETA	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez	
	Rotameter: DichMuuns Co. **Serial # :** 001336	**Expiration Date:** 3-21-2017	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
2-PVC			2.0	2.0	1124	1046	1405	2810	1st floor - west living room
			Avg:	2.0					
G1-PVC			2.0	2.0	1431	1403	1412	2824	1st floor living room
			Avg:	2.0					
G3-PVC			2.0	2.0	1504	1449	1425	2850	1st floor dining room
			Avg:	2.0					
G3-PVC-D	↓	↓	2.0	2.0	1504	1449	1425	2850	1st floor dining room
			Avg:	2.0					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Scovins	**Date:** 4-1-16	**Time:** 1750	**Received by:**	**Date:** 4/1/16	**Time:** 1751
Relinquished by:	**Date:** 4/1/16	**Time:** 1807	**Received by:**	**Date:** 4/1/16	**Time:** 1900
Relinquished by: TO FED EX	**Date:** 4/4/16	**Time:**	**Received by:** Murray Tyler	**Date:** 4/4/16	**Time:** 931

Report Reference:1 Generated:05-APR-16 11:20

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3-31-16
	Project Location: Aliso Canyon	Wallace Seoniers, Joel Berman, INGRID ZUBIETA	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: DickMunns Co. Serial # : 001336	Expiration Date: 7-4-2017	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
44-PVC			2.0	2.0	1749	1709	1400	2800	2nd floor living room
			Avg: 2.0						
PVC-FB-1B									Serial #341265 4-1-16 Collected @ House #40
			Avg:						
PVC-TB-1B									Collected @ House #2 9-1-16
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Seoniers	Date: 4-1-16	Time: 1750	Received by: [signature]	Date: 4/1/16	Time: 1751
Relinquished by: [signature]	Date: 4/1/16	Time: 1807	Received by:	Date:	Time:
Relinquished by: [signature] TO FedEx	Date: 4/4/16	Time:	Received by: [signature]	Date: 4/4/16	Time: 931

Report Reference: 1 Generated: 05-APR-16 11:20

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 04, 2016

DOH ELAP #11626 Account# 30549 Login# L371323
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 04, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-1@ **Air Volume : 2753 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-1@ **Air Volume : 2753 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-1@ **Air Volume : 2753 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-2@ **Air Volume : 2830 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	0.83	0.00029	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-2@ **Air Volume : 2830 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-2@ **Air Volume : 2830 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-3@ **Air Volume : 2765 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-3@ **Air Volume : 2765 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-3@ **Air Volume : 2765 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-4@ **Air Volume : 2675 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00034	mg/m3
Arsenic	0.15	<0.15	<0.000056	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00056	mg/m3
Cadmium	0.015	<0.015	<0.0000056	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000056	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-4@ **Air Volume : 2675 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000056	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000056	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000056	mg/m3
Phosphorus	15.	<15	<0.0056	mg/m3
Potassium	15.	<15	<0.0056	mg/m3
Selenium	2.3	<2.3	<0.00084	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000056	mg/m3
Tellurium	0.15	<0.15	<0.000056	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-4@ **Air Volume : 2675 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00056	mg/m3
Uranium	0.15	<0.15	<0.000056	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000056	mg/m3
Zinc	2.3	<2.3	<0.00084	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-5@ **Air Volume : 2755 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-5@ **Air Volume : 2755 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-5@ **Air Volume : 2755 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-6@ **Air Volume : 2826 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-6@ **Air Volume : 2826 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-6@ **Air Volume : 2826 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-7@ **Air Volume : 2738 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-7@ **Air Volume : 2738 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-7@ **Air Volume : 2738 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Lab ID : L371323-8@ **Air Volume : 2838 Liter**
Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]

Lab ID : L371323-8@ **Air Volume : 2838 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Date Sampled : 03/31/16

Lab ID : L371323-8@ **Air Volume : 2838 Liter**
Date Analyzed : 04/04/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Lab ID : L371323-9@ **Air Volume : NA**
Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Lab ID : L371323-9@ **Air Volume : NA**
Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930088

[redacted]
Lab ID : L371323-9@ **Air Volume : NA**
Date Sampled : 03/31/16 **Date Analyzed : 04/04/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 04-APR-16

Submitted by: MHL/JMR
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371323

Date Analyzed : 04-APR-16
Report ID : 930012

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371323-1	2753	<0.050	<0.018
L371323-2	2830	<0.050	<0.018
L371323-3	2765	<0.050	<0.018
L371323-4	2675	0.092	0.034
L371323-5	2755	0.15	0.054
L371323-6	2826	0.13	0.047
L371323-7	2738	<0.050	<0.018
L371323-8	2838	<0.050	<0.018
L371323-9	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 04-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16
Date Received: 04-APR-16
Date Analyzed: 04-APR-16

Account No.: 30549
Login No. : L371323

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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371323 (Report ID: 930088):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371323 (Report ID: 930088):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371323
Date Analyzed: 04-APR-16

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-12.2%	100%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16
Date Received: 04-APR-16
Date Analyzed: 04-APR-16

Account No.: 30549
Login No. : L371323

Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16
Date Received: 04-APR-16
Date Analyzed: 04-APR-16

Account No.: 30549
Login No. : L371323

L371323 (Report ID: 930088):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371323 (Report ID: 930012):
SOPs: GRAV-SOP-5(15)
PNOR = Particulates Not Otherwise Regulated.
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

807588546471
Date:04/04/16 L371323
Shipper:FEDEX
Initials:DD
Prep:UNKNOWN

R84

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Celso Saravia
	Rotameter: EMS Serial # : 194588-60 Expiration Date: 5-15-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
32-PVC.	PVC Filtr	NIOSH 500/7300	2.0	1.9	0841	0813	1,412	2,733	Dinning / Kitchen.
			Avg:	1.95					
23-PVC.	PVC Filtr	NIOSH 500/7300	2.0	2.0	1021	0956	1,415	2,830	Dinning
			Avg:	2.0					
14-PVC.	PVC Filtr	NIOSH 500/7300	2.0	1.9	1142	1120	1,418	2,765	Dinning
			Avg:	1.95					
14-PVC-EXT.	PVC Filtr	NIOSH 500/7300	2.0	1.8	1159	1127	1,408	2,675	Rear Patio
			Avg:	1.9					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 4/1/16	Time: 1741	Received by:	Date: 4/1/16	Time: 1749
Relinquished by: TO FEDEX	Date: 4/1/16	Time: 1749	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: Lindsay Kc 8	Date: 4/4/16	Time: 934

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/31/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Calos Serna	
	Rotameter: EMS Serial # : 194588-OC	Expiration Date: 5-15-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
C.S ~~56-PVC~~	PVC Filtn	NIOSH 500/7300	2.0		1331		VOID		Living Rm @ Stairs
			Avg:						
C.S ~~56-PVC-D~~	PVC Filtn	NIOSH 500/7300	2.0		1331		VOID		Living Rm @ Stairs
			Avg:						
85-PVC.	PVC Filtn	NIOSH 500/7300	2.0	1.9	1548	1521	1,413	2,755	FAMILY Rm
			Avg:	1.95					
85-PVC-ARC	PVC Filtn	NIOSH 500/730	2.0	2.0	1548	1521	1,413	2,826	FAMILY Rm
			Avg:	2					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:		Date: 4/1/16	Time: 1741	Received by:		Date: 4/1/16	Time: 17:46
Relinquished by:	TWTRDLEX	Date: 4/1/16	Time: 1749	Received by:		Date:	Time:
Relinquished by:		Date:	Time:	Received by:		Date: 4/4/16	Time: 934

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048** **Date:** 3/31/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Carlos Serrano
	Rotameter: EMS **Serial # :** 194588-00 **Expiration Date:** 5-15-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
116-PVC.	PVC FILTER	NIOSH 500/7300	2.0	1.9	1620	1544	1,404	2,738	Dinning Rm.
			Avg:	1.95					
114-PVC.	PVC FILTER	NIOSH 500/7300	2.0	2.0	1739	1918	1,419	2,838	DINNING RM
			Avg:	2.0					
14-PVC-B'	PVC Filter	NIOSH 0500/7300	—	—	—	—	—	—	Field Blank
			Avg:	—	—	—			
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Relinquished by:	**Date:** 4/1/16	**Time:** 1741	**Received by:**	**Date:**	**Time:**
Relinquished by: TO FedEx	**Date:** 4/1/16	**Time:** 1749	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:** Murray Vogt	**Date:** 4/4/16	**Time:** 934

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 05, 2016

DOH ELAP #11626 Account# 30549 Login# L371329
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 04, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-1@ **Air Volume : 2864.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-1@ **Air Volume : 2864.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-1@ **Air Volume : 2864.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-2@ **Air Volume : 3003.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-2@ **Air Volume : 3003.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-2@ **Air Volume : 3003.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-3@ **Air Volume : NA**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-3@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-3@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-4@ **Air Volume : 2898.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-4@ **Air Volume : 2898.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-4@ **Air Volume : 2898.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-5@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-5@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-5@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-6@ **Air Volume : 2969.4 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-6@ **Air Volume : 2969.4 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-6@ **Air Volume : 2969.4 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-7@ **Air Volume : 3040.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000049	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00049	mg/m3
Cadmium	0.015	<0.015	<0.0000049	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000099	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000049	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-7@ **Air Volume : 3040.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000049	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000049	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000049	mg/m3
Phosphorus	15.	<15	<0.0049	mg/m3
Potassium	15.	<15	<0.0049	mg/m3
Selenium	2.3	<2.3	<0.00074	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000049	mg/m3
Tellurium	0.15	<0.15	<0.000049	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-7@ **Air Volume : 3040.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00049	mg/m3
Uranium	0.15	<0.15	<0.000049	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000049	mg/m3
Zinc	2.3	<2.3	<0.00074	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-8@ **Air Volume : 2967.3 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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6601 Kirkville Road
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-8@ **Air Volume : 2967.3 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-8@ **Air Volume : 2967.3 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-9@ **Air Volume : 2965.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-9@ **Air Volume : 2965.2 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-9@ **Air Volume : 2965.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-10@ **Air Volume : 2977.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-10@ **Air Volume : 2977.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-10@ **Air Volume : 2977.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-11@ **Air Volume : 2990.4 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-11@ **Air Volume : 2990.4 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-11@ **Air Volume : 2990.4 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-12@ **Air Volume : 3007.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-12@ **Air Volume : 3007.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-12@ **Air Volume : 3007.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-13@ **Air Volume : 2977.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-13@ **Air Volume : 2977.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-13@ **Air Volume : 2977.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-14@ **Air Volume : 3063.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000049	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00049	mg/m3
Cadmium	0.015	<0.015	<0.0000049	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000098	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000049	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-14@ **Air Volume : 3063.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000049	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000049	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000049	mg/m3
Phosphorus	15.	<15	<0.0049	mg/m3
Potassium	15.	<15	<0.0049	mg/m3
Selenium	2.3	<2.3	<0.00073	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000049	mg/m3
Tellurium	0.15	<0.15	<0.000049	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-14@ **Air Volume : 3063.8 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00049	mg/m3
Uranium	0.15	<0.15	<0.000049	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000049	mg/m3
Zinc	2.3	<2.3	<0.00073	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-15@ **Air Volume : 3038.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000049	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00049	mg/m3
Cadmium	0.015	<0.015	<0.0000049	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000099	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000049	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-15@ **Air Volume : 3038.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000049	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000049	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000049	mg/m3
Phosphorus	15.	<15	<0.0049	mg/m3
Potassium	15.	<15	<0.0049	mg/m3
Selenium	2.3	<2.3	<0.00074	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000049	mg/m3
Tellurium	0.15	<0.15	<0.000049	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-15@ **Air Volume : 3038.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00049	mg/m3
Uranium	0.15	<0.15	<0.000049	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000049	mg/m3
Zinc	2.3	<2.3	<0.00074	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-16@ **Air Volume : 3111.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000048	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00048	mg/m3
Cadmium	0.015	<0.015	<0.0000048	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000014	mg/m3
Copper	0.30	<0.30	<0.000096	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000048	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-16@ **Air Volume : 3111.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000048	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000048	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000048	mg/m3
Phosphorus	15.	<15	<0.0048	mg/m3
Potassium	15.	<15	<0.0048	mg/m3
Selenium	2.3	<2.3	<0.00072	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000048	mg/m3
Tellurium	0.15	<0.15	<0.000048	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-16@ **Air Volume : 3111.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00048	mg/m3
Uranium	0.15	<0.15	<0.000048	mg/m3
Vanadium	0.45	<0.45	<0.00014	mg/m3
Yttrium	0.015	<0.015	<0.0000048	mg/m3
Zinc	2.3	<2.3	<0.00072	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-17@ **Air Volume : 3098.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000048	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00048	mg/m3
Cadmium	0.015	<0.015	<0.0000048	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000097	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000048	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-17@ **Air Volume : 3098.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000048	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000048	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000048	mg/m3
Phosphorus	15.	<15	<0.0048	mg/m3
Potassium	15.	<15	<0.0048	mg/m3
Selenium	2.3	<2.3	<0.00073	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000048	mg/m3
Tellurium	0.15	<0.15	<0.000048	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-17@ **Air Volume : 3098.2 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00048	mg/m3
Uranium	0.15	<0.15	<0.000048	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000048	mg/m3
Zinc	2.3	<2.3	<0.00073	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-18@ **Air Volume : 2932 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-18@ **Air Volume : 2932 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-18@ **Air Volume : 2932 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-19@ **Air Volume : 3151.9 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000048	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00048	mg/m3
Cadmium	0.015	<0.015	<0.0000048	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000014	mg/m3
Copper	0.30	<0.30	<0.000095	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000048	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-19@ **Air Volume : 3151.9 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000048	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000048	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000048	mg/m3
Phosphorus	15.	<15	<0.0048	mg/m3
Potassium	15.	<15	<0.0048	mg/m3
Selenium	2.3	<2.3	<0.00071	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000048	mg/m3
Tellurium	0.15	<0.15	<0.000048	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-19@ **Air Volume : 3151.9 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00048	mg/m3
Uranium	0.15	<0.15	<0.000048	mg/m3
Vanadium	0.45	<0.45	<0.00014	mg/m3
Yttrium	0.015	<0.015	<0.0000048	mg/m3
Zinc	2.3	<2.3	<0.00071	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-20@ **Air Volume : 3083.1 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000049	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00049	mg/m3
Cadmium	0.015	<0.015	<0.0000049	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000097	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000049	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-20@ **Air Volume : 3083.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000049	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000049	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000049	mg/m3
Phosphorus	15.	<15	<0.0049	mg/m3
Potassium	15.	<15	<0.0049	mg/m3
Selenium	2.3	<2.3	<0.00073	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000049	mg/m3
Tellurium	0.15	<0.15	<0.000049	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-20@ **Air Volume : 3083.1 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00049	mg/m3
Uranium	0.15	<0.15	<0.000049	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000049	mg/m3
Zinc	2.3	<2.3	<0.00073	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-21@ **Air Volume : 3048.7 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000049	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00049	mg/m3
Cadmium	0.015	<0.015	<0.0000049	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000098	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000049	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-21@ **Air Volume : 3048.7 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000049	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000049	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000049	mg/m3
Phosphorus	15.	<15	<0.0049	mg/m3
Potassium	15.	<15	<0.0049	mg/m3
Selenium	2.3	<2.3	<0.00074	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000049	mg/m3
Tellurium	0.15	<0.15	<0.000049	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-21@ **Air Volume : 3048.7 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00049	mg/m3
Uranium	0.15	<0.15	<0.000049	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000049	mg/m3
Zinc	2.3	<2.3	<0.00074	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-22@ **Air Volume : 3104.6 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000048	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00048	mg/m3
Cadmium	0.015	<0.015	<0.0000048	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000014	mg/m3
Copper	0.30	<0.30	<0.000097	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000048	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-22@ **Air Volume : 3104.6 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000048	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000048	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000048	mg/m3
Phosphorus	15.	<15	<0.0048	mg/m3
Potassium	15.	<15	<0.0048	mg/m3
Selenium	2.3	<2.3	<0.00072	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000048	mg/m3
Tellurium	0.15	<0.15	<0.000048	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-22@ **Air Volume : 3104.6 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00048	mg/m3
Uranium	0.15	<0.15	<0.000048	mg/m3
Vanadium	0.45	<0.45	<0.00014	mg/m3
Yttrium	0.015	<0.015	<0.0000048	mg/m3
Zinc	2.3	<2.3	<0.00072	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-23@ **Air Volume : 3124.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0024	mg/m3
Antimony	0.90	<0.90	<0.00029	mg/m3
Arsenic	0.15	<0.15	<0.000048	mg/m3
Barium	0.075	<0.075	<0.000024	mg/m3
Beryllium	0.0075	<0.0075	<0.0000024	mg/m3
Bismuth	0.075	<0.075	<0.000024	mg/m3
Boron	1.5	<1.5	<0.00048	mg/m3
Cadmium	0.015	<0.015	<0.0000048	mg/m3
Calcium	75.	<75	<0.024	mg/m3
Chromium	7.5	<7.5	<0.0024	mg/m3
Cobalt	0.045	<0.045	<0.000014	mg/m3
Copper	0.30	<0.30	<0.000096	mg/m3
Indium	0.75	<0.75	<0.00024	mg/m3
Iron	7.5	<7.5	<0.0024	mg/m3
Lanthanum	0.15	<0.15	<0.000048	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-23@ **Air Volume : 3124.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000024	mg/m3
Lithium	0.15	<0.15	<0.000048	mg/m3
Magnesium	7.5	<7.5	<0.0024	mg/m3
Manganese	0.15	<0.15	<0.000048	mg/m3
Molybdenum	0.075	<0.075	<0.000024	mg/m3
Nickel	0.15	<0.15	<0.000048	mg/m3
Phosphorus	15.	<15	<0.0048	mg/m3
Potassium	15.	<15	<0.0048	mg/m3
Selenium	2.3	<2.3	<0.00072	mg/m3
Silicon	7.5	<7.5	<0.0024	mg/m3
Sodium	75.	<75	<0.024	mg/m3
Strontium	0.15	<0.15	<0.000048	mg/m3
Tellurium	0.15	<0.15	<0.000048	mg/m3
Thallium	0.75	<0.75	<0.00024	mg/m3
Titanium	0.75	<0.75	<0.00024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-23@ **Air Volume : 3124.0 Liter**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00048	mg/m3
Uranium	0.15	<0.15	<0.000048	mg/m3
Vanadium	0.45	<0.45	<0.00014	mg/m3
Yttrium	0.015	<0.015	<0.0000048	mg/m3
Zinc	2.3	<2.3	<0.00072	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-24@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]

Lab ID : L371329-24@ **Air Volume : NA**

Date Sampled : 03/30/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16 - 05-APR-16
Report ID : 930172

[redacted]
Date Sampled : 03/30/16

Lab ID : L371329-24@ **Air Volume : NA**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 05-APR-16

Submitted by: JMR/MHL/GJM/AS
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16
Report ID : 930013

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371329-1	2864	<0.050	<0.017
L371329-2	3003	<0.050	<0.017
L371329-3	NA	0.075	NA
L371329-4	2898.8	<0.050	<0.017
L371329-5	NA	<0.050	NA
L371329-6	2969.4	<0.050	<0.017
L371329-7	3040.1	0.056	0.018
L371329-8	2967.3	<0.050	<0.017
L371329-9	2965.2	0.081	0.027
L371329-10	2977.8	0.050	0.017
L371329-11	2990.4	<0.050	<0.017
L371329-12	3007.2	<0.050	<0.017
L371329-13	2977.8	<0.050	<0.017
L371329-14	3063.8	0.088	0.029
L371329-15	3038	0.054	0.018
L371329-16	3111.1	0.051	0.016

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: PAH
Approved by : CRI
Date : 05-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 30-MAR-16
Date Received : 04-APR-16

Account No.: 30549
Login No. : L371329

Date Analyzed : 04-APR-16
Report ID : 930013

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371329-17	3098.2	<0.050	<0.016
L371329-18	2932	<0.050	<0.017
L371329-19	3151.9	<0.050	<0.016
L371329-20	3083.1	<0.050	<0.016
L371329-21	3048.7	<0.050	<0.016
L371329-22	3104.6	<0.050	<0.016
L371329-23	3124	0.057	0.018
L371329-24	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: PAH
Approved by : CRI
Date : 05-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 30-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371329
Date Analyzed: 04-APR-16 - 05-APR-16

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.
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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371329 (Report ID: 930172):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371329 (Report ID: 930172):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 30-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371329
Date Analyzed: 04-APR-16 - 05-APR-16

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-12.2%	100%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 30-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371329
Date Analyzed: 04-APR-16 - 05-APR-16

Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 30-MAR-16 Account No.: 30549
Date Received: 04-APR-16 Login No. : L371329
Date Analyzed: 04-APR-16 - 05-APR-16

L371329 (Report ID: 930172):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371329 (Report ID: 930013):
SOPs: GRAV-SOP-5(15)
PNOR = Particulates Not Otherwise Regulated.
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.

L371329-3 (Report ID: 930013):
The blank value has been verified. Sample results have not been corrected for the blank value.
A laboratory blank was prepared and analyzed with the samples. The laboratory blank concentration was less than the level of quantitation.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

L371329

807588546460
Date:04/04/16
Shipper:FEDEX
Initials:DD
Prep:UNKNOWN

R117

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project # : 603287048 Date: 3/30/16
Project Location: Aliso Canyon
Client Reference: Los Angeles County Industrial Hygienist: Robert Vasquez IT/SH
Rotameter: Key Instruments Serial # : 001154 Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter UW 3 Pc NG 3/24/4	NIOSH 500/7300, Particulates and all compatible metals		Avg:					
7-PVC	"	"	2.10	2.0 Avg: 2.0	0902	0854	1432	2864.0	#341246 living room table
36-PVC	"	"	2.10	2.1 Avg: 2.1	0958	0948	1430	3003.0	living room #341222
36-PVC-FB	"	"		Avg:					"
31-PVC	"	"	2.10	1.95 Avg: 2.03	1108	1056	1428	2898.8	living room #341253

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag
Compatible metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y. Mg 4/5/16

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Relinquished by:	Date: 3/31/16	Time: 1757	Received by:		Date: 3/31/16	Time: 1826
Relinquished by: MC	Date: 3/31/16	Time: 1630	Received by: Zachary King		Date: 4/4/16	Time: 9:11
Relinquished by:	Date:	Time:	Received by:		Date:	Time:

Report Reference ID Generated:05-APR-16 16:20

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez/SH/IZ	
	Rotameter: Key Instruments Serial # : 001154	Expiration Date: 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
PVC-TB1-Dragon	11	11							Trip blank
			Avg:						
~~PT~~ 34-PVC	11	11	2.10	2.1	1204	1138	1414	2969.4	living room #341249
			Avg:	2.10					
34-PVC-D	11	11	2.10	2.20	1204	1138	1414	3040.1	11 #341258
			Avg:	2.15					
47-PVC	11	11	2.09	2.10	1319	1252	1413	2967.3	dining room #341260
			Avg:	2.10					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 3/31/16	Time: 1757	Received by:	Date: 3/31/16	Time: 1826
Relinquished by:	Date: 3/31	Time:	Received by: Zachary King	Date: 4/4/16	Time: 9:11
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez/IH/SH	
	Rotameter: Key Instruments **Serial # :** 001154	**Expiration Date:** 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							#
			Avg:						
69-PVC-ARC	11	11	2.10	2.6	1420	1352	1412	2965.2	# dining room
			Avg: 2.10						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	**Date:** 3/31/16	**Time:** 1757	**Received by:**	**Date:** 3/2/16	**Time:** 1826
Relinquished by:	**Date:**	**Time:**	**Received by:** Zachary King	**Date:** 4/4/16	**Time:** 911
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

 Report Reference Generated:05-APR-16 16:20

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez/TT/SH	
	Rotameter: Key Instruments Serial # : 001154	Expiration Date: 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
69-pvc	"	"	2.10	2.10	1413	1351	1418	2977.8	dining room
			Avg:	2.10					
93-pvc	"	"	2.10	2.10	1511	1455	1424	2990.4	dining room
			Avg:	2.10					
119-pvc	"	"	2.10	2.10	1612	1604	1432	3007.2	dining room #341233
			Avg:	2.10					
45-pvc	"	"	2.10	2.10	1731	1709	1418	2977.8	living room #341256
			Avg:	2.10					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: [signature]	Date: 3/31/16	Time: 1757	Received by: [signature]	Date: 3/31/16	Time: 1826
Relinquished by:	Date:	Time:	Received by: Zachary King [signature]	Date: 4/4/16	Time: 9:14
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 03/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** HOVANNESS DEIKEYAN, KURT SEUBERT, IVAN	
	Rotameter: SHO-RATE **Serial # :** 000344	**Expiration Date:** 05-09-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC) 37-PVC-EXT	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	2.303	11:21	11:06	1425	3.0638	ZEFON SN 334976 10.866 mg EXTERIOR/BACKYARD
			Avg: 2.15						
91-PVC			2.0	2.303	11:57	11:30	1413	3038.0	ZEFON SN 334986 11.203 mg LIVING ROOM
			Avg: 2.15						
10-PVC			2.0	2.303	13:46	1353	1447	3111.1	~~ZEFON SN 334970 9.431 mg~~ ZEFON SN 334981 10.455 mg FOYER AT STAIRS
			Avg: 2.16						
48-PVC			2.0	2.303	1424	1425	1441	3098.2	ZEFON SN 341231 14.349 mg KIT/DINNING ROOM COUNTER
			Avg: 2.15						
48-PVC-FB					1417	1417	∅	∅	~~ZEFON 341224 16.25 mg~~ FIELD BLANK MDC
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

NOTE: * 10-PVC'S INITIAL CASSETTE WAS FIELD VOIDED BECAUSE SN 334970 FELL INTO ~~THE~~ DIRT WITH CAPS OFF,

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 3/31/16	**Time:** 1800	**Received by:**	**Date:** 3/31/16	**Time:** 1800
Relinquished by:	**Date:** 3/31/16	**Time:** 1830	**Received by:**	**Date:** 3/31/16	**Time:** 1826
Relinquished by:	**Date:**	**Time:**	**Received by:** Zachary King	**Date:** 4/4/16	**Time:** 9:11

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 03/30/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: HOVANESS DEKEYAN, KURT SEUBERT, IVAN MEJIAS

Rotameter: SHO-RATE **Serial # :** 000344 **Expiration Date:** 05-04-2016

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						11,675mg (3 PIECE CASS) STN
33-PVC			2.0	2.0	09:05	9131	1466	2932	~~11,675mg~~ (3 PIECE CASSETTE) 11,678MG S/N 334991 Dirty Table
33-PVC-D			2.0	2.303	09:04	930	1466	3151.9	9.14MG 3 PIECE CASETTE S/N 334962 Dirty Table
35-PVC			2.0	2.303	10:10	1006	1434	3083.1	S/N 334961 10.758 MG Dirty Room
37-PVC			2.0	2.303	11:10	10:48	1418	3049.7	S/N 334975 10.517 MG Dirty Room
			Avg: 2.15						
			Avg: 2.15						
			Avg: 2.15						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 3/3/16	**Time:** 1800	**Received by:** Meredith	**Date:** 3/31/16	**Time:** 1800
Relinquished by:	**Date:** 3/4/16	**Time:** 8:30	**Received by:**	**Date:** 3/30/16	**Time:** 1826
Relinquished by:	**Date:**	**Time:**	**Received by:** Mallary King	**Date:** 4/4/16	**Time:** 9:45

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Hermanes Dereyan, Kurt Seaboot, Ivan Morales	
	Rotameter: Sho-Rate Serial # : 000344	Expiration Date: 05-09-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC) 78-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	2303	15:36	1540	1444	3104.6	ZEFON SN 334992 13.773mg LIVING ROOM
			Avg: 2.15						
57-PVC			2.0	2.303	16:17	1630	1453	3124.0	ZEFON SN 341239 15.144mg LIVING ROOM
			Avg: 2.15						
TB-1c-PVC			Ø		Ø	Ø	Ø	Ø	TRIP BLANK 03/30/2016
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 3/31/16	Time: 1800	Received by: Meredith	Date: 3/31/16	Time: 1800
Relinquished by:	Date: 3/31/16	Time: 1830	Received by:	Date: 3/31/16	Time: 1826
Relinquished by:	Date:	Time:	Received by: Hilary King	Date: 4/4/16	Time: 9:11

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 06, 2016

DOH ELAP #11626 Account# 30549 Login# L371438
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 05, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Please note the ID discrepancy recorded on the attached chain of custody. The ID from the chain has been used for this report.

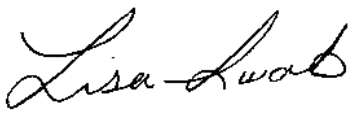
Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories



Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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East Syracuse, NY 13057
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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-1@ **Air Volume : 5762 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0013	mg/m3
Antimony	0.90	<0.90	<0.00016	mg/m3
Arsenic	0.15	<0.15	<0.000026	mg/m3
Barium	0.075	<0.075	<0.000013	mg/m3
Beryllium	0.0075	<0.0075	<0.0000013	mg/m3
Bismuth	0.075	<0.075	<0.000013	mg/m3
Boron	1.5	<1.5	<0.00026	mg/m3
Cadmium	0.015	<0.015	<0.0000026	mg/m3
Calcium	75.	<75	<0.013	mg/m3
Chromium	7.5	<7.5	<0.0013	mg/m3
Cobalt	0.045	<0.045	<0.0000078	mg/m3
Copper	0.30	<0.30	<0.000052	mg/m3
Indium	0.75	<0.75	<0.00013	mg/m3
Iron	7.5	<7.5	<0.0013	mg/m3
Lanthanum	0.15	<0.15	<0.000026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-1@ **Air Volume : 5762 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000013	mg/m3
Lithium	0.15	<0.15	<0.000026	mg/m3
Magnesium	7.5	<7.5	<0.0013	mg/m3
Manganese	0.15	<0.15	<0.000026	mg/m3
Molybdenum	0.075	<0.075	<0.000013	mg/m3
Nickel	0.15	<0.15	<0.000026	mg/m3
Phosphorus	15.	<15	<0.0026	mg/m3
Potassium	15.	<15	<0.0026	mg/m3
Selenium	2.3	<2.3	<0.00039	mg/m3
Silicon	7.5	<7.5	<0.0013	mg/m3
Sodium	75.	<75	<0.013	mg/m3
Strontium	0.15	<0.15	<0.000026	mg/m3
Tellurium	0.15	<0.15	<0.000026	mg/m3
Thallium	0.75	<0.75	<0.00013	mg/m3
Titanium	0.75	<0.75	<0.00013	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-1@ **Air Volume : 5762 Liter**

Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00026	mg/m3
Uranium	0.15	<0.15	<0.000026	mg/m3
Vanadium	0.45	<0.45	<0.000078	mg/m3
Yttrium	0.015	<0.015	<0.0000026	mg/m3
Zinc	2.3	<2.3	<0.00039	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 03/31/16

Lab ID : L371438-2@ **Air Volume : 5762 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0013	mg/m3
Antimony	0.90	<0.90	<0.00016	mg/m3
Arsenic	0.15	<0.15	<0.000026	mg/m3
Barium	0.075	<0.075	<0.000013	mg/m3
Beryllium	0.0075	<0.0075	<0.0000013	mg/m3
Bismuth	0.075	<0.075	<0.000013	mg/m3
Boron	1.5	<1.5	<0.00026	mg/m3
Cadmium	0.015	<0.015	<0.0000026	mg/m3
Calcium	75.	<75	<0.013	mg/m3
Chromium	7.5	<7.5	<0.0013	mg/m3
Cobalt	0.045	<0.045	<0.0000078	mg/m3
Copper	0.30	<0.30	<0.000052	mg/m3
Indium	0.75	<0.75	<0.00013	mg/m3
Iron	7.5	<7.5	<0.0013	mg/m3
Lanthanum	0.15	<0.15	<0.000026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Lab ID : L371438-2@ **Air Volume : 5762 Liter**
Date Sampled : 03/31/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000013	mg/m3
Lithium	0.15	<0.15	<0.000026	mg/m3
Magnesium	7.5	<7.5	<0.0013	mg/m3
Manganese	0.15	<0.15	<0.000026	mg/m3
Molybdenum	0.075	<0.075	<0.000013	mg/m3
Nickel	0.15	<0.15	<0.000026	mg/m3
Phosphorus	15.	<15	<0.0026	mg/m3
Potassium	15.	<15	<0.0026	mg/m3
Selenium	2.3	<2.3	<0.00039	mg/m3
Silicon	7.5	<7.5	<0.0013	mg/m3
Sodium	75.	<75	<0.013	mg/m3
Strontium	0.15	<0.15	<0.000026	mg/m3
Tellurium	0.15	<0.15	<0.000026	mg/m3
Thallium	0.75	<0.75	<0.00013	mg/m3
Titanium	0.75	<0.75	<0.00013	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 03/31/16

Lab ID : L371438-2@ **Air Volume : 5762 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00026	mg/m3
Uranium	0.15	<0.15	<0.000026	mg/m3
Vanadium	0.45	<0.45	<0.000078	mg/m3
Yttrium	0.015	<0.015	<0.0000026	mg/m3
Zinc	2.3	<2.3	<0.00039	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-3@ **Air Volume : 2931.50 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-3@ **Air Volume : 2931.50 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-3@ **Air Volume : 2931.50 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-4@ **Air Volume : 3027.85 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000099	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-4@ **Air Volume : 3027.85 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00074	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-4@ **Air Volume : 3027.85 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00074	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-5@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-5@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-5@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-6@ **Air Volume : 2919.20 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-6@ **Air Volume : 2919.20 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-6@ **Air Volume : 2919.20 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-7@ **Air Volume : 2915.10 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-7@ **Air Volume : 2915.10 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-7@ **Air Volume : 2915.10 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-8@ **Air Volume : 2994.60 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	0.10	0.000034	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
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FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-8@ **Air Volume : 2994.60 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-8@ **Air Volume : 2994.60 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-9@ **Air Volume : 2956.875 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-9@ **Air Volume : 2956.875 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-9@ **Air Volume : 2956.875 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-10@ **Air Volume : 2979.90 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	0.017	0.0000056	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-10@ **Air Volume : 2979.90 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-10@ **Air Volume : 2979.90 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-11@ **Air Volume : 2952.725 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Lab ID : L371438-11@ **Air Volume : 2952.725 Liter**
Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-11@ **Air Volume : 2952.725 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-12@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-12@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-12@ **Air Volume : NA**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-13@ **Air Volume : 2908 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-13@ **Air Volume : 2908 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-13@ **Air Volume : 2908 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-14@ **Air Volume : 2974 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-14@ **Air Volume : 2974 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-14@ **Air Volume : 2974 Liter**
Date Analyzed : 04/05/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-15@ **Air Volume : 2877 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-15@ **Air Volume : 2877 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-15@ **Air Volume : 2877 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
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< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-16@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

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< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-16@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-16@ **Air Volume : NA**

Date Sampled : 04/01/16 **Date Analyzed : 04/05/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-17@ **Air Volume : 2742.6 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-17@ **Air Volume : 2742.6 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-17@ **Air Volume : 2742.6 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-18@ **Air Volume : 2882 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-18@ **Air Volume : 2882 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-18@ **Air Volume : 2882 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-19@ **Air Volume : 3003 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-19@ **Air Volume : 3003 Liter**
Date Analyzed : 04/06/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-19@ **Air Volume : 3003 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-20@ **Air Volume : 3024 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.000099	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-20@ **Air Volume : 3024 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00074	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-20@ **Air Volume : 3024 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00074	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-21@ **Air Volume : 2927 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-21@ **Air Volume : 2927 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-21@ **Air Volume : 2927 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-22@ **Air Volume : 2974 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]

Lab ID : L371438-22@ **Air Volume : 2974 Liter**

Date Sampled : 04/01/16 **Date Analyzed : 04/06/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00076	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16 - 06-APR-16
Report ID : 930316

[redacted]
Date Sampled : 04/01/16

Lab ID : L371438-22@ **Air Volume : 2974 Liter**
Date Analyzed : 04/06/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00076	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 06-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16
Report ID : 930240

Total Dust

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371438-1	5762	0.052	0.0090
L371438-2	5762	<0.050	<0.0087
L371438-3	2931.5	<0.050	<0.017
L371438-4	3027.85	0.097	0.032
L371438-5	NA	<0.050	NA
L371438-6	2919.2	<0.050	<0.017
L371438-7	2915.1	<0.050	<0.017
L371438-8	2994.6	0.13	0.042
L371438-9	2956.875	<0.050	<0.017
L371438-10	2979.9	0.057	0.019
L371438-11	2952.725	<0.050	<0.017
L371438-12	NA	<0.050	NA
L371438-13	2908	0.11	0.037
L371438-14	2974	<0.050	<0.017
L371438-15	2877	0.053	0.018
L371438-16	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 05-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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Date Sampled : 31-MAR-16 - 01-APR-16
Date Received : 05-APR-16

Account No.: 30549
Login No. : L371438

Date Analyzed : 05-APR-16
Report ID : 930240

Total Dust

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371438-17	2742.6	0.050	0.018
L371438-18	2882	<0.050	<0.017
L371438-19	3003	0.060	0.020
L371438-20	3024	<0.050	<0.017
L371438-21	2927	<0.050	<0.017
L371438-22	2974	<0.050	<0.017

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 05-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16 - 01-APR-16 Account No.: 30549
Date Received: 05-APR-16 Login No. : L371438
Date Analyzed: 05-APR-16 - 06-APR-16

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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371438 (Report ID: 930316):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371438 (Report ID: 930316):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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Date Analyzed: 05-APR-16 - 06-APR-16

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-12.2%	100%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-10.6%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Date Received: 05-APR-16 Login No. : L371438
Date Analyzed: 05-APR-16 - 06-APR-16

Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

SGS GALSON LABORATORIES

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 31-MAR-16 - 01-APR-16 Account No.: 30549
Date Received: 05-APR-16 Login No. : L371438
Date Analyzed: 05-APR-16 - 06-APR-16

L371438 (Report ID: 930316):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371438 (Report ID: 930240):
SOPs: GRAV-SOP-5(15)
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.
PNOR = Particulates Not Otherwise Regulated.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

L3714438

AIR SAMPLING DATA SHEET

R 100

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 3/31/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Celso Senno

Rotameter:

Serial # :

Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter NG mg 4/5/16	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
56-PVC	↓	↓	2.0	2.0	1331	1332	2881	5762	Living Rm @ stairs 3 of 3
			Avg: 2.0						
56-PVC-D	↓	↓	2.0	2.0	1331	1332	2881	5762	Living Rm @ Stairs. ↓
			Avg: 2.0						
									SF 4/5/16
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

Compatible metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In La, Li, Te, U, Y. mg 4/5/16

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 4/1/16	**Time:** 1949	**Received by:**	**Date:** 4/2/16	**Time:** 3:51
Relinquished by:	**Date:** 4/2/16	**Time:** 4:10	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/5/16	**Time:** 0955

Report Reference:1 Generated:06-APR-16 11:20

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Jim Tang, Shannon Hill, Lucas Walla, Robin Tomalant	
	Rotameter #: HSA 1154	**Serial # :** 450122	**Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
89-PVC.	11	11	2.10	2.0	0853	8:43	1430	2,931.50	main living area 3 ft from
			Avg: 2.05						
* 91-PVC	11	11	2.10	2.0	1000	9:37	1477	3,027.85	dining room
			Avg: 2.05						
PVC-TB-1-Dragon	11	11	—	—	1010		—	—	Trip Blank
			Avg:						
85-PVC.	11	11	2.10	2.0	1108	10:52	1424	2,919.20	living room
			Avg: 2.05						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

* ID 91-ST mg 4/5/16

SK 4/5/16

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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Robin Tomalant	**Date:** 4-2-16	**Time:** 2:35pm	**Received by:** [signature]	**Date:** 4-2-16	**Time:** 2:40
Relinquished by: [signature]	**Date:** 4-4-16	**Time:** 4:10 pm	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:** M Kaiser	**Date:** 4/5/16	**Time:** 0955

Report Reference:1 Generated:06-APR-16 11:20

AIR SAMPLING DATA SHEET

RIO

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Jim Tang, Shannon Hill, Lucas Wallin, Robin Fornalont	
	Rotameter: HBA 1154	Serial #: 450122	Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
25-PVC-D	"	"	2.10	2.0	1109	10:51	1422	2,915.10	~~kitchen~~ main ~~AH~~ living area 3bd
			Avg:	2.05					
25-PVC-Ext	"	"	2.10	2.1	1107	10:53	1426	2,994.60	patio
			Avg:	2.1					
44-PVC	"	"	2.10	2.15	1148	1133	1425	2,956.875	living room
			Avg:	2.075					
97-PVC	"	"	2.10	2.10	1336 AH	1315	1419	2,979.90	bedroom
			Avg:	2.1					SK 4/5/16

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Robin Fornalont	Date: 4-2-16	Time: 2:35PM	Received by: [signature]	Date: 4/2/16	Time: 2:40
Relinquished by: [signature] to FedEx	Date: 4-2-16	Time: 4:00 pm	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: [signature]	Date: 4/5/16	Time: 0955

 Report Reference:1 Generated:06/APR-16 11:20

AIR SAMPLING DATA SHEET

109

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: ~~Jim Tang~~ Lucas Wallin Robin Fomalont	
	Rotameter: HSA 1154	Serial # : 450622	Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							~~Kitchen~~ unus 4/1/16
			Avg:						3 below
17-PVC	11	11	2.10	2.05	1420	1403	1,423	2,952.725	Kitchen
			Avg: 2.075						
17-PVC-FB	11	11							Field Blank
			Avg:						
									SL 4/5/16
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Robin Fomalont	Date: 4-2-16	Time: 2:35 PM	Received by: [signature]	Date: 4/2/16	Time: 2:40
Relinquished by: Overnight Fedex	Date: 4-2-16	Time: 4:00 PM	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/5/16	Time: 0955

Report Reference Created on 06 APR 2016 11:20

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/1/14

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Yvan A. Schmidt

Rotameter: Ewig **Serial # :** 194588-00 **Expiration Date:** 5-15-14

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
55-PVC	37mm PVC Filter	NIOSH 0500/7300	2.0	2.0	0834	0853	19 1354 1454	2908	Table in Dining Area
			Avg: 2.0						
~~55-PVC-B~~	~~37mm PVC Filter~~	~~NIOSH 0500/7300~~	—	—	—	—	—	—	~~Field Blank~~ YAS
			Avg: —		—	—	—	—	
			Avg:						
			Avg:						

Zefon ↓ SK 4/5/14

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 4/2/14	**Time:** 1627	**Received by:**	**Date:** 4/2/14	**Time:** 1630
Relinquished by:	**Date:** 4/4/14	**Time:** 900	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/5/14	**Time:** 0955

Report Reference:1 Generated:06-APR-16 11:20

AIR SAMPLING DATA SHEET

R 1109

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: IVAN MYERS / KURT SOUBERT	
	Rotameter: KEY INSTRUMENTS Serial #: 001459	Expiration Date: 4-28-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
68-PVC	" "	"	2.1	2.1	12:16	11:46	1416	2974	ZEFON SN 341221 / 16.255 mg FORMAL DINING
			Avg:	2.1					
46-PVC	" "	"	2.1	2.1	14:15	1305	1370	2877	ZEFON SN 341217 15.429 mg FORMAL DINING ADJTO KITCHEN ENTRY
			Avg:	2.1					
46-PVC-FB	" "	"	Ø	Ø	1412	1413	1	–	ZEFON SN 341263 / 14.094 mg FORMAL DINING ROOM
			Avg:						
~~SA-PVC~~ 19-PVC	UOBS 4-2-16	UOBS 4-2-16 UOBS	2.1	2.1	15:05	1431			ZEFON - 341225 / 15.199 mg
			Avg:	2.1					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag NOTE = FIELD BLANKS AT 46

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Somers	Date: 4-2-16	Time: 1634	Received by:	Date: 4/2/16	Time: 1641
Relinquished by: to FEDEX	Date: 4/4/16	Time: 1200	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/5/16	Time: 0955

AIR SAMPLING DATA SHEET

109

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-1-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Ivan Myers / Kurt S.	
	Rotameter: Key Instruments Serial # : 001451	Expiration Date: 4-25-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
71-PVC	↓	↓	2.1	2.1	1615	1431	1306	2742.6	ZEFON SN 341255 15.564mg FORMAL LIVING Room
			Avg: 2.1						
9-PVC	↓	↓	2.0	2.0	1505	1506	1441	2882	ZEFON 341225/15.199mg KITCHEN / DINING ROOM NOOK - PASSTHROUG
			Avg: 2.0						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Stevens	Date: 4-2-16	Time: 1634	Received by:	Date: 4/2/16	Time: 1644
Relinquished by: to Fed Ex	Date: 4-4-16	Time: 1200	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/5/16	Time: 0955

Report Reference:1 Generated:06-APR-16 11:20

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP** INFO FROM CAL SHEET	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4/11/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** KURT SOUBOTA / LEANN MYERS	
	Rotameter: KEY INSTRUMENT **Serial # :** 001459	**Expiration Date:** 4-28-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	**PVC Filter**	NIOSH 500/7300, Particulates and all compatible metals		Avg:					
12-PVC			2.1	2.1	0840	0830	1430	3003	ZEFON 341219 / 15.206 mg DEN/DINING ROOM
			Avg:	2.1					
11-PVC			2.1	2.1	0940	0928	1440	3024	ZEFON 341244 / 14.858 mg DINING ADJ. TO KITCHEN ~~Might have been turned on~~ CS
			Avg:	2.1					
11-PVC-D			2.1	2.0	0942	0928	1438	2927	ZEFON 341242 / 15.432 mg DINING ADJ. TO KITCHEN
			Avg:	2.05					
112-PVC			2.1	2.1	1053	1028	1416	2974	ZEFON SN 341241 / 14.282 mg FORMAL DINING
			Avg:	2.1					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

WBS 4-7-16

Relinquished by: Wallace Services	**Date:** 4-2-16	**Time:** 1634	**Received by:**	**Date:** 4/2/16	**Time:** 1644
Relinquished by:	**Date:** 4-4-16	**Time:** 1200	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/5/16	**Time:** 0955

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 08, 2016

DOH ELAP #11626 Account# 30549 Login# L371657
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 07, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

SGS GALSON LABORATORIES

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East Syracuse, NY 13057
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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-3 **Air Volume : 2700 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000056	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00056	mg/m3
Cadmium	0.015	<0.015	<0.0000056	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000056	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-3 **Air Volume : 2700 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000056	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000056	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000056	mg/m3
Phosphorus	15.	<15	<0.0056	mg/m3
Potassium	15.	<15	<0.0056	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000056	mg/m3
Tellurium	0.15	<0.15	<0.000056	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

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East Syracuse, NY 13057
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-3 **Air Volume : 2700 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00056	mg/m3
Uranium	0.15	<0.15	<0.000056	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000056	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-4 **Air Volume : 2842 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-4 **Air Volume : 2842 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-4 **Air Volume : 2842 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]
Lab ID : L371657-5 **Air Volume : 2832 Liter**
Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-5 **Air Volume : 2832 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-5 **Air Volume : 2832 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-6 **Air Volume : 2824 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-6 **Air Volume : 2824 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-6 **Air Volume : 2824 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-7 **Air Volume : 2736 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-7 **Air Volume : 2736 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-7 **Air Volume : 2736 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-8 **Air Volume : 2666 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00034	mg/m3
Arsenic	0.15	<0.15	<0.000056	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00056	mg/m3
Cadmium	0.015	<0.015	<0.0000056	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000056	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-8 **Air Volume : 2666 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000056	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000056	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000056	mg/m3
Phosphorus	15.	<15	<0.0056	mg/m3
Potassium	15.	<15	<0.0056	mg/m3
Selenium	2.3	<2.3	<0.00084	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000056	mg/m3
Tellurium	0.15	<0.15	<0.000056	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-8 **Air Volume : 2666 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00056	mg/m3
Uranium	0.15	<0.15	<0.000056	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000056	mg/m3
Zinc	2.3	<2.3	<0.00084	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-9 **Air Volume : 2816 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-9 **Air Volume : 2816 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-9 **Air Volume : 2816 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-10 **Air Volume : 2790 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-10 **Air Volume : 2790 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-10 **Air Volume : 2790 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-11+ **Air Volume : NA**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	0.060	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-11+ **Air Volume : NA**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-11+ **Air Volume : NA**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-12 **Air Volume : 2848 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-12 **Air Volume : 2848 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-12 **Air Volume : 2848 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-13 **Air Volume : 2901 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]
Lab ID : L371657-13 **Air Volume : 2901 Liter**
Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-13 **Air Volume : 2901 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-14 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-14 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]
Lab ID : L371657-14 **Air Volume : 2828 Liter**
Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-15 **Air Volume : 2826 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	1.3	0.00045	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-15 **Air Volume : 2826 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	0.47	0.00016	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-15 **Air Volume : 2826 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-16 **Air Volume : 2800 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-16 **Air Volume : 2800 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]
Date Sampled : 04/04/16

Lab ID : L371657-16 **Air Volume : 2800 Liter**
Date Analyzed : 04/08/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-17 **Air Volume : 2788 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-17 **Air Volume : 2788 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-17 **Air Volume : 2788 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-18 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-18 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]
Lab ID : L371657-18 **Air Volume : 2828 Liter**
Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-19 **Air Volume : 2722 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	0.43	0.00016	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-19 **Air Volume : 2722 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-19 **Air Volume : 2722 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-20 **Air Volume : 2844 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-20 **Air Volume : 2844 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-20 **Air Volume : 2844 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-21 **Air Volume : 2760 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-21 **Air Volume : 2760 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-21 **Air Volume : 2760 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-22 **Air Volume : NA**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-22 **Air Volume : NA**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-22 **Air Volume : NA**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-23 **Air Volume : 2830 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-23 **Air Volume : 2830 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-23 **Air Volume : 2830 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-24 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-24 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930805

[redacted]

Lab ID : L371657-24 **Air Volume : 2828 Liter**

Date Sampled : 04/04/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 08-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 05-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930684

[redacted]

Lab ID : L371657-2 **Wipe Area : 100 cm2**

Date Sampled : 04/05/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 07-APR-16

Submitted by: mhl/jmr
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 05-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16 - 08-APR-16
Report ID : 930684

[redacted]

Lab ID : L371657-2 **Wipe Area : 100 cm2**

Date Sampled : 04/05/16 **Date Analyzed : 04/07/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 07-APR-16

Submitted by: mhl/jmr
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 05-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16
Report ID : 930646

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L371657-1	100	95	95	0.95

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 07-APR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client	: Leighton Consulting, Inc	Account No.: 30549	
Site	: Aliso Canyon	Login No. : L371657	
Project No.	: 603287.048		
Date Sampled	: 05-APR-16	Date Analyzed	: 07-APR-16
Date Received	: 07-APR-16	Report ID	: 930651

Isopropyl Alcohol

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L371657-1	100	150	160	1.6

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5 ug		Submitted by: BDK	
Analytical Method	: mod. NIOSH 1400; GC/FID BADGE	Approved by : nkp	
OSHA PEL	: 400 ppm (TWA)	Date : 07-APR-16	NYS DOH # : 11626
Collection Media	: OVM Wipe	Supervisor: KLD	QC by: KSB

<	-Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms	NA -Not Applicable	ND -Not Detected
>	-Greater Than	ug -Micrograms	l -Liters	NS -Not Specified	ppm -Parts per Million	

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16
Report ID : 930639

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371657-3	2700	<0.050	<0.019
L371657-4	2842	<0.050	<0.018
L371657-5	2832	<0.050	<0.018
L371657-6	2824	<0.050	<0.018
L371657-7	2736	<0.050	<0.018
L371657-8	2666	0.068	0.026
L371657-9	2816	0.055	0.020
L371657-10	2790	<0.050	<0.018
L371657-11	NA	<0.050	NA
L371657-12	2848	<0.050	<0.018
L371657-13	2901	<0.050	<0.017
L371657-14	2828	<0.050	<0.018
L371657-15	2826	0.19	0.068
L371657-16	2800	<0.050	<0.018
L371657-17	2788	<0.050	<0.018
L371657-18	2828	<0.050	<0.018

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: PAH
Approved by : CRI
Date : 07-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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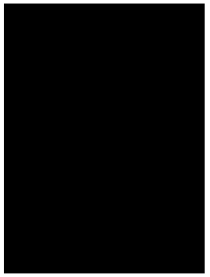
LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048
Date Sampled : 04-APR-16
Date Received : 07-APR-16

Account No.: 30549
Login No. : L371657

Date Analyzed : 07-APR-16
Report ID : 930639

Total Dust



Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371657-19	2722	0.12	0.043
L371657-20	2844	<0.050	<0.018
L371657-21	2760	<0.050	<0.018
L371657-22	NA	<0.050	NA
L371657-23	2830	0.061	0.022
L371657-24	2828	0.063	0.022

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: PAH
Approved by : CRI
Date : 07-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 04-APR-16 - 05-APR-16 Account No.: 30549
Date Received: 07-APR-16 Login No. : L371657
Date Analyzed: 07-APR-16 - 08-APR-16

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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371657 (Report ID: 930684):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L371657 (Report ID: 930684):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-13.3%	100%
Antimony	+/-13.3%	100%
Barium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Date Sampled : 04-APR-16 - 05-APR-16 Account No.: 30549
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Date Analyzed: 07-APR-16 - 08-APR-16

Beryllium	+/-8%	101%
Cadmium	+/-7.8%	103%
Chromium	+/-13.3%	100%
Cobalt	+/-13.3%	100%
Copper	+/-13.3%	100%
Iron	+/-13.3%	100%
Lead	+/-26.2%	101%
Manganese	+/-13.3%	100%
Molybdenum	+/-13.3%	100%
Nickel	+/-13.3%	100%
Strontium	+/-13.3%	100%
Thallium	+/-13.3%	100%
Vanadium	+/-13.3%	100%

Parameter	Method	PEL
Aluminum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Antimony	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Barium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Beryllium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cadmium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Chromium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cobalt	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Copper	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Iron	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Lead	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Manganese	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Molybdenum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Nickel	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Strontium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Thallium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Vanadium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA

L371657 (Report ID: 930805):
Reported results reflect elemental analysis of the requested metals. Certain

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Project No. : 603287.048

Date Sampled : 04-APR-16 - 05-APR-16 Account No.: 30549
Date Received: 07-APR-16 Login No. : L371657
Date Analyzed: 07-APR-16 - 08-APR-16

L371657 (Report ID: 930805):
compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

+L371657-11 (Report ID: 930805):
Client-submitted blank result is above the LOQ at 0.60 ug for Cadmium. Sample results not blank-corrected.

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-12.2%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
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Date Sampled : 04-APR-16 - 05-APR-16 Account No.: 30549
Date Received: 07-APR-16 Login No. : L371657
Date Analyzed: 07-APR-16 - 08-APR-16

Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%
Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA

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L371657 (Report ID: 930805):

Parameter	Method	PEL
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371657 (Report ID: 930646):
Total ug corrected for a desorption efficiency of 100%.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Project No. : 603287.048

Date Sampled : 04-APR-16 - 05-APR-16 Account No.: 30549
Date Received: 07-APR-16 Login No. : L371657
Date Analyzed: 07-APR-16 - 08-APR-16

L371657 (Report ID: 930646):
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The total VOC analysis should be used for screening purposes only. All values are estimated based on the response of n-Hexane. Please contact client services in regards to reporting the sample(s) for the tentatively identified compounds. For the sample(s) that are non-detect no tentative identifications will be provided. The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.

L371657-1 (Report ID: 930646):
Tentative Identification includes: Other unknown volatile organic compounds.

L371657 (Report ID: 930646):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Total Hydrocarbons	+/-16.7%	100%

L371657 (Report ID: 930651):
Total ug corrected for a desorption efficiency of 98%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

---

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287.048

Date Sampled : 04-APR-16 - 05-APR-16 Account No.: 30549
Date Received: 07-APR-16 Login No. : L371657
Date Analyzed: 07-APR-16 - 08-APR-16

L371657 (Report ID: 930651):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Isopropyl Alcohol	+/-10.1%	95.9%

L371657 (Report ID: 930639):
SOPs: GRAV-SOP-5(15)
PNOR = Particulates Not Otherwise Regulated.
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using
SGS Galson Laboratories media, and may not apply to media of different manufacture.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

CHAIN OF CUSTODY FORM

✓L-371653r

WIPE SAMPLE DATA SHEET

TAT 24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048 (1R102)
	Client: Los Angeles County	Sampler Name: Carlos Serrano
	Project Location: Aliso Canyon	Date: 4/5/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
122-CD	(10x10) 100 cm²	Carbon Disk	Living Room, Stone Tile Floor- beneath window	NIOSH 1500/1501 ~~NIOSH 7300~~ ~~NIOSH 5500/5021~~
122-GH	(10x10) 100 cm²	Ghost ~~wipe~~ Wipe	Living Room, stone Tile Floor beneath window	NIOSH 7300

809509946647
Date:04/07/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300 ✓ See attached mg 4/7/16

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501 and Isopropal alcohol mg 4/7/16

Relinquished by:	Date: 4/5/16	Time: 1310	Received by:	Date: 4/5/16	Time: 1710
Relinquished by:	Date: 4/5/16	Time: 1800	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/7/16	Time: 0930

RIDZ

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano, Shannan Hill

Rotameter: SN 194588-00 **Rotameter Serial # :** LF-19 **Calibration Expiration Date:** 5/15/15

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals See attached	2 Avg:						
34-PVC	"	" 11 mg 4/7/16	2 Avg: 1.9	1.8	0846	0827	1,421	2,700	dining room
34-PVC-D	"	"	2 Avg: 2.0	2	0846	0827	1,421	2,842	dining room
6-PVC	"	"	2 Avg: 2.0	2	0928	0852	1,416	2,832	kitchen island
42-PVC	"	"	2 Avg: 2.0	2.0	1036	1008	1,412	2,824	kitchen counter

3 of m

SK 4/7/16

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	**Date:** 4/5/16	**Time:** 1707	**Received by:**	**Date:** 4/5/16	**Time:** 17:17
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/7/16	**Time:** 0938

 Report Reference: Generated: 08-APR-16 11:45

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Carlos Serrano, Shannan Hill

Rotameter: LF-19 **Serial # :** 1945886-00 **Expiration Date:**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2						
			Avg:						
70-PVC	11	11	2	1.9	1123	1046	1,403	2,736	corner between dining/living
			Avg:	1.95					
70-PVC-EXT	11	11	2	1.8	1130	1053	1,403	2,666	window corner
~~70-PVC-EXT~~			Avg:	1.9					
58-PVC	11	11	2	2	1313	1241	1,408	2,816	living room
			Avg:	2.0					
~~58-PVC FB~~	11	11	2	2	1417	1332	1,395	2,790	living room
60-PVC			Avg:	2.0					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-8227 (Client Services) Fax: (315) 437-0571

SK 4/7/16

Relinquished by:	**Date:** 4/5/16	**Time:** 1707	**Received by:**	**Date:** 4/5/16	**Time:** 1717
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/7/16	**Time:** 0930

AIR SAMPLING DATA SHEET

102

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/4/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano, Shannan Hill
	Rotameter: LF-19 Serial # : 194588-00	Expiration Date: 5/15/14

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							~~living room~~ NA
			Avg:						
60-PVC-FB	"	"	2	—	1419	—	—	—	living room
			Avg:	—	—	—			
~~60-PVC-ARC~~	VOID		2		1417				~~living room~~
			Avg:						
20-PVC	"	"	2	2	1511	1455	1,424	2,848	dining room
			Avg:	2.0					
5-PVC			2	2.1	1515 NA	1650	1,415	2,901	eat in kitchen dining table
			Avg:	2.05					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 4/5/16	Time: 1708	Received by:	Date: 4/5/16	Time: 1717
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/7/16	Time: 0938

Report Reference:1 Generated:08-APR-16 11:45

E 102

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Camilla Westberg / Hovanees Dekeyan

Rotameter: SKC Rate 1-15 lpm **Serial # :** 4423771 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC) 4-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	2.0	0900	0834	1414	2828	15.458 mg Serial # 341189 ~3.5ft high table Dining Area next to Kitchen 3 lpm
~~4-PVC 4/4/16~~ 95-PVC			2.0	2.0	0945	9:18	1413	2826	13.761 mg Serial # 341205 ~3 ft high on desk, 2nd Floor, SE side
103-PVC-EXT			2.0	2.0	1036	0956	SSC 1394 1400	SSC 2788 2800	backyard, on table under overhang. ~3.5ft high. 15.039 mg SN 341178
103-PVC			2.0	2.0	1040	0950	1390 ~~1390~~ SSC	2788	15.191 mg Serial # 341182 Dining Room Table ~3.5 ft
117-PVC			2.0	2.0	1205	1139	1414	2828	15.658 mg SN 341194 Kitchen table ~3 ft

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 4/5/16	Time: 1732	**Received by:**	Date: 4/5/16	Time: 1739
Relinquished by: to Fedex	Date: ~~4/5/16~~ 4/5/16	Time: 1800	**Received by:**	Date:	Time:
Relinquished by:	Date:	Time:	**Received by:**	Date: 4/7/16	Time: 0938

(102)

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]

Project # : 603287048 **Date: 4/4/16**

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg/Hovaness Dekeyan

Rotameter: Pro-Rate 1-15 lpm Serial # : 442371 **Expiration Date: 3/21/17**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – PVC (13 PVC) 4/4/16~~ 51-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	1.9	1401	1317	1396	2722	12.95 mg SN: 34183 3 lpm Kitchen Cook Top
			Avg: 1.95						
53-PVC			2.0	2.0	1515	1457	1422	2844	Kitchen table, ~3.5ft tall. West side of home
			Avg: 2.0						
81-PVC			2.0	2.0	1623	1521	1378	2760	Kitchen counter, 4ft tall
			Avg: 2.0						
81-PVC-FB							0	0	Inside unit 315 – Field Blank
			Avg:						
13-PVC			2.0	2.0	1725	1700	1415	2830	Dining Room table, ~3.5ft tall. NW area of home
			Avg: 2.0						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SK 4/7/16

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Relinquished by:	**Date:** 4/5/16	**Time:** 1729	**Received by:**	**Date:** 4/5/16	**Time:** 1739
Relinquished by: Jennifer Rodriguez to FedEx	**Date:** 4/5/16	**Time:** 1800	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 4/7/16	**Time:** 0930

 Report Reference:1 Generated:08 APR 16 11:45

AIR SAMPLING DATA SHEET

R102

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/4/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Hovanes Dekeyan
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – PVC (13 PVC)~~ 13-PVC-D	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	2.0	1726	1700	~~1380~~ 1414 JSC	2828	Dining Room table, ~3.5ft tall NW area of home ZAbm
			Avg: 2.0						
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432–5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 4/5/16	Time: 1732	Received by:	Date: 4/5/16	Time: 1739
Relinquished by: to FedEx	Date: 4/5/16	Time: 1739	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/7/16	Time: 0938

Compatible metals for ghost wipes:
Al, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sr, Tl, V

Compatible metals for filters:
Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y.

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 11, 2016

DOH ELAP #11626 Account# 30549 Login# L371790
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 08, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-1@ **Air Volume : 2902.8 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	0.046	0.000016	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-1@ **Air Volume : 2902.8 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-1@ **Air Volume : 2902.8 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-2@ **Air Volume : 2904.9 Liter**
Date Analyzed : 04/08/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-2@ **Air Volume : 2904.9 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-2@ **Air Volume : 2904.9 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-3@ **Air Volume : 2904.8 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-3@ **Air Volume : 2904.8 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-3@ **Air Volume : 2904.8 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Lab ID : L371790-4@ **Air Volume : NA**
Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-4@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-4@ **Air Volume : NA**
Date Analyzed : 04/08/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-5@ **Air Volume : 2923.3 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-5@ **Air Volume : 2923.3 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-5@ **Air Volume : 2923.3 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/08/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-6@ **Air Volume : 2850.2 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	0.070	0.000025	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Lab ID : L371790-6@ **Air Volume : 2850.2 Liter**
Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-6@ **Air Volume : 2850.2 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-7@ **Air Volume : 2909 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-7@ **Air Volume : 2909 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-7@ **Air Volume : 2909 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-8@ **Air Volume : NA**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-8@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-8@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-9@ **Air Volume : 2878.2 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-9@ **Air Volume : 2878.2 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-9@ **Air Volume : 2878.2 Liter**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-10@ **Air Volume : 2818 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Lab ID : L371790-10@ **Air Volume : 2818 Liter**
Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Lab ID : L371790-10@ **Air Volume : 2818 Liter**
Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Lab ID : L371790-11@ **Air Volume : 2850 Liter**
Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-11@ **Air Volume : 2850 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-11@ **Air Volume : 2850 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-12@ **Air Volume : 2842 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-12@ **Air Volume : 2842 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
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[redacted]
Lab ID : L371790-12@ **Air Volume : 2842 Liter**
Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-13@ **Air Volume : 2782 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-13@ **Air Volume : 2782 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

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Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-13@ **Air Volume : 2782 Liter**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

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Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-14@ **Air Volume : 2850 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
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Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-14@ **Air Volume : 2850 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
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Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

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Report ID : 931008

[redacted]

Lab ID : L371790-14@ **Air Volume : 2850 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-15@ **Air Volume : 2784 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-15@ **Air Volume : 2784 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-15@ **Air Volume : 2784 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-16@ **Air Volume : 2917 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000051	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00051	mg/m3
Cadmium	0.015	<0.015	<0.0000051	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000051	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-16@ **Air Volume : 2917 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000051	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000051	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000051	mg/m3
Phosphorus	15.	<15	<0.0051	mg/m3
Potassium	15.	<15	<0.0051	mg/m3
Selenium	2.3	<2.3	<0.00077	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000051	mg/m3
Tellurium	0.15	<0.15	<0.000051	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-16@ **Air Volume : 2917 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00051	mg/m3
Uranium	0.15	<0.15	<0.000051	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000051	mg/m3
Zinc	2.3	<2.3	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-17@ **Air Volume : 2990 Liter**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-17@ **Air Volume : 2990 Liter**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-17@ **Air Volume : 2990 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-18@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-18@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-18@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-19@ **Air Volume : 2804 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-19@ **Air Volume : 2804 Liter**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Lab ID : L371790-19@ **Air Volume : 2804 Liter**
Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-20@ **Air Volume : NA**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]

Lab ID : L371790-20@ **Air Volume : NA**

Date Sampled : 04/05/16 **Date Analyzed : 04/09/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16 - 09-APR-16
Report ID : 931008

[redacted]
Date Sampled : 04/05/16

Lab ID : L371790-20@ **Air Volume : NA**
Date Analyzed : 04/09/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 11-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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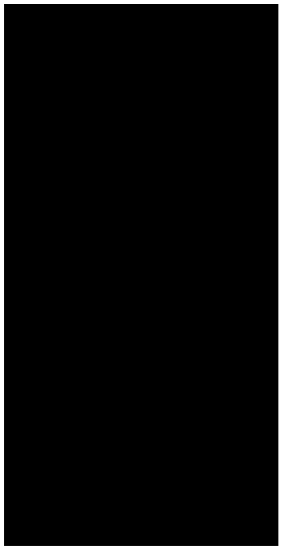
LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16
Report ID : 930876

Total Dust



Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371790-1	2902.8	<0.050	<0.017
L371790-2	2904.9	<0.050	<0.017
L371790-3	2904.8	0.15	0.052
L371790-4	NA	<0.050	NA
L371790-5	2923.3	<0.050	<0.017
L371790-6	2850.2	<0.050	<0.018
L371790-7	2909	<0.050	<0.017
L371790-8	NA	<0.050	NA
L371790-9	2878.2	<0.050	<0.017
L371790-10	2818	<0.050	<0.018
L371790-11	2850	<0.050	<0.018
L371790-12	2842	<0.050	<0.018
L371790-13	2782	0.073	0.026
L371790-14	2850	<0.050	<0.018
L371790-15	2784	0.085	0.031
L371790-16	2917	<0.050	<0.017

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: PAH
Approved by : CRI
Date : 08-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 05-APR-16
Date Received : 08-APR-16

Account No.: 30549
Login No. : L371790

Date Analyzed : 08-APR-16
Report ID : 930876

Total Dust

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371790-17	2990	<0.050	<0.017
L371790-18	NA	0.060	NA
L371790-19	2804	<0.050	<0.018
L371790-20	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: PAH
Approved by : CRI
Date : 08-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: KSB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 05-APR-16 Account No.: 30549
Date Received: 08-APR-16 Login No. : L371790
Date Analyzed: 08-APR-16 - 09-APR-16

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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371790 (Report ID: 931008):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.

@L371790 (Report ID: 931008):
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter. Reported Soluble Tungsten results may be biased high.

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms	ppm -Parts per Million		
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified	ND -Not Detected	NA -Not Applicable	

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Date Sampled : 05-APR-16 Account No.: 30549
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Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-12.2%	100%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Project No. : 603287048

Date Sampled : 05-APR-16 Account No.: 30549
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Date Analyzed: 08-APR-16 - 09-APR-16

Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Project No. : 603287048

Date Sampled : 05-APR-16 Account No.: 30549
Date Received: 08-APR-16 Login No. : L371790
Date Analyzed: 08-APR-16 - 09-APR-16

L371790 (Report ID: 931008):

Parameter	Method	PEL
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371790 (Report ID: 930876):
SOPs: GRAV-SOP-5(15)
PNOR = Particulates Not Otherwise Regulated.
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using SGS Galson Laboratories media, and may not apply to media of different manufacture.

L371790-18 (Report ID: 930876):
The blank value has been verified. Sample results have not been corrected for the blank value.
A laboratory blank was prepared and analyzed with the samples. The laboratory blank concentration was less than the level of quantitation.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

808623765614
Date:04/08/16
Shipper:FEDEX
Initials:CTK
Prep:UNKNOWN

AIR SAMPLING DATA SHEET

RUSH

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: April 5, 2016

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Shannan Hill & Robin Fomalont; IH

Rotameter:

Serial # : HSA 001154

Expiration Date: 3-21-17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter PW	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
59-PVC	"	"	2.0	2.1	08:49	0825	1416	2902.8	Dining Room
			Avg: 2.05						
~~80-PVC-G~~ 80-PVC	"	"	2.0	2.1	0941	0918	1417	2904.9	dining room construction in bathroom on opposite side of house
			Avg: 2.05						
87-PVC			2.0	2.1	1017	0953	1416	2904.8	First floor Bedroom
			Avg: 2.05						
87-PVC-FB					1005				First floor Bedroom Blank
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag Metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Ingrid Gubicza	Date: 4/6/16	Time: 1646	Received by:	Date: 4/6/16	Time: 1652
Relinquished by:	Date:	Time:	Received by:	Date: 4/8/16	Time: 0933
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 4-5-2016
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Shannan Hill, Robin Fonalda; IZ	
	Rotameter: HSA **Serial # :** 001154	**Expiration Date:** 3-21-17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
88-PVC	11	11	2.0	2.1 HSA	11:14	1100	1426	2923.3	First-floor bedroom
			Avg: 2.05						
72-PVC	11	11	2.0	2.15	1611	1549	1418	2850.2	dining table
			Avg: 2.01						
72-PVC-D	11	11	2.0	2.1	1610	1559 IX 49	1419	2909	dining table
			Avg: 2.05						
~~PVC-2008~~ HSA									
~~Blank~~ HSA									
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432—5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Ingrid Zubieta	**Date:** 4/6/16	**Time:** 4:46p	**Received by:**	**Date:** 4/6/16	**Time:** 1652
Relinquished by: to Fedex	**Date:** 4/6/16	**Time:** 1800	**Received by:**	**Date:** 4/8/16	**Time:** 0933
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project # : 603287048 **Date:** 4/5/16
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Shannon Hill, Robin Simalnut, IT
Rotameter: **Serial # :** HSA 001154 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
PVC-TBI-Dragon	"	"			1506				blank @ 1506
			Avg:						
27-PVC	"	"	2.10	2.1	1656	1620	1404	2878.2	dining room/ kitchen
			Avg: 2.05						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432—5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Ingrid Zubieta IT	**Date:** 4/6/16	**Time:** 1646	**Received by:**	**Date:** 4/6/16	**Time:** 1652
Relinquished by: FedEx to Fedex	**Date:** 4/6/16	**Time:** 1652	**Received by:**	**Date:** 4/8/16	**Time:** 0933
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

808623765614
Date:04/08/16
Shipper:FEDEX
Initials:CTK
Prep:UNKNOWN

RSO

IR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]

Project # : 603287048 **Date: 4/5/16**

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist: Carlos Serrano**

Rotameter: EMS LF-19 **Serial # : 194588-00** **Expiration Date: 5/15/16**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter PW	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
122-PVC	PVC Filter	NIOSH 0500/7300	2.0	2.0	1542	1511	1409	2818	Island in the middle of Kitchen
			Avg: 2.0						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 4/6/16	**Time:** 1659	**Received by:**	**Date:** 4/6/16	**Time:** 1700
Relinquished by: FedEx	**Date:** 4/6/16	**Time:** 1800	**Received by:**	**Date:** 4/8/16	**Time:** 0975
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

808623765614
Date:04/08/16
Shipper:FEDEX
Initials:CTK
Prep:UNKNOWN

AIR SAMPLING DATA SHEET (RS1)

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/05/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Wallace Sconiers / Hawkness Ackerson	
	Rotameter: SHO-RAT6 Serial # : 001292	Expiration Date: 05/04/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter PW will	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
1-PVC			2.0	2.0	0852	0837	1425	2,850	S/N 335011 12.31 lbs Foyer on stand – 2 ft
			Avg: 2.0						
107-PVC			2.0	2.0	0928	0909	1421	2,842	S/N 335029 10.849 lbs ~3 ft South portion of home living area
			Avg: 2.0						
107-PVC-EXT			2.0	2.0	1005	0946	1391	2,782	S/N 335010 12.646 lbs. Exterior
			Avg: 2.0						
~~73-PVC~~ 1420 4/1/16 73-PVC			2.0	2.0	1045	1030	1425	2,850	S/N 335000 11.498 lbs Dining Table ~3 ft
			Avg: 2.0						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by:		Date: 4/6/16	Time: 1420	Received by:		Date: 4/6/16	Time: 1617
Relinquished by:	to fedex	Date: 4/6/16	Time: BOC	Received by:		Date: 4/18/16	Time: 0935
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/05/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Wallace Stevens / Harmeet Dhillon	
	Rotameter: SKC-RAJ6 Serial # : 001292	Expiration Date: 05/04/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number = PVC (19-PVC)~~ 67-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	~~NIOSH 5 6~~ 1139	2.0	1139	1051	1392	2,784	South-Dining/Living Room table * Smoking odor in house *
			Avg: 2.0						
115-PVC			2.0	2.1	1400	1343	1423	2,917	12.993 mg S/N 335022 Dining Table ~3 ft
			Avg: 2.05						
115-PVC-D			2.0	2.2	1400	1344	1424	2,990	13.591 mg S/N 341228 Dining table ~3ft
			Avg: 2.1						
115-PVC-FB									15.872 mg S/N 341216 Field Blank
			Avg:						
111-PVC			2.0	2.0	1541	1503	1402	2804	13.741 mg S/N 341264 on top of Dining Table ~3 ft
			Avg: 2.0						

Pump ran for 402 minutes.

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 4/06/16	Time: 4:10 PM	Received by:	Date: 4/6/16	Time: 1617
Relinquished by:	Date:	Time:	Received by:	Date: 4/8/16	Time: 0935
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/05/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Walker Scientific / Harness Dekeyan	
	Rotameter: SHO-RATE6 Serial # : 001292	Expiration Date: 05/04/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals		Avg:					
TB-2C-PVC	"	"		Avg:					4/05/16 Trip Blank Coyote
~~WBS 4-6-16 S4 PVC~~		WBS 4-6-16	~~2.0~~	Avg:					
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 4/06/16	Time: 4:10 PM	Received by:		Date: 4/6/16	Time: 1617
Relinquished by:	Date:	Time:	Received by:		Date: 4/8/16	Time: 0935
Relinquished by:	Date:	Time:	Received by:		Date:	Time:

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 13, 2016

DOH ELAP #11626 Account# 30549 Login# L371933
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 11, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-1 **Air Volume : 2786.6 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000054	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00054	mg/m3
Cadmium	0.015	<0.015	<0.0000054	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000054	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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East Syracuse, NY 13057
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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-1 **Air Volume : 2786.6 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000054	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000054	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000054	mg/m3
Phosphorus	15.	<15	<0.0054	mg/m3
Potassium	15.	<15	<0.0054	mg/m3
Selenium	2.3	<2.3	<0.00081	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000054	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-1 **Air Volume : 2786.6 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00054	mg/m3
Uranium	0.15	<0.15	<0.000054	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000054	mg/m3
Zinc	2.3	<2.3	<0.00081	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-2 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-2 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-2 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-3 **Air Volume : 752 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.010	mg/m3
Antimony	0.90	<0.90	<0.0012	mg/m3
Arsenic	0.15	<0.15	<0.00020	mg/m3
Barium	0.075	<0.075	<0.00010	mg/m3
Beryllium	0.0075	<0.0075	<0.000010	mg/m3
Bismuth	0.075	<0.075	<0.00010	mg/m3
Boron	1.5	<1.5	<0.0020	mg/m3
Cadmium	0.015	<0.015	<0.000020	mg/m3
Calcium	75.	<75	<0.10	mg/m3
Chromium	7.5	<7.5	<0.010	mg/m3
Cobalt	0.045	<0.045	<0.000060	mg/m3
Copper	0.30	<0.30	<0.00040	mg/m3
Indium	0.75	<0.75	<0.0010	mg/m3
Iron	7.5	<7.5	<0.010	mg/m3
Lanthanum	0.15	<0.15	<0.00020	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-3 **Air Volume : 752 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.00010	mg/m3
Lithium	0.15	<0.15	<0.00020	mg/m3
Magnesium	7.5	<7.5	<0.010	mg/m3
Manganese	0.15	<0.15	<0.00020	mg/m3
Molybdenum	0.075	<0.075	<0.00010	mg/m3
Nickel	0.15	<0.15	<0.00020	mg/m3
Phosphorus	15.	<15	<0.020	mg/m3
Potassium	15.	<15	<0.020	mg/m3
Selenium	2.3	<2.3	<0.0030	mg/m3
Silicon	7.5	<7.5	<0.010	mg/m3
Sodium	75.	<75	<0.10	mg/m3
Strontium	0.15	<0.15	<0.00020	mg/m3
Tellurium	0.15	<0.15	<0.00020	mg/m3
Thallium	0.75	<0.75	<0.0010	mg/m3
Titanium	0.75	<0.75	<0.0010	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-3 **Air Volume : 752 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0020	mg/m3
Uranium	0.15	<0.15	<0.00020	mg/m3
Vanadium	0.45	<0.45	<0.00060	mg/m3
Yttrium	0.015	<0.015	<0.000020	mg/m3
Zinc	2.3	<2.3	<0.0030	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-4 **Air Volume : 746 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.010	mg/m3
Antimony	0.90	<0.90	<0.0012	mg/m3
Arsenic	0.15	<0.15	<0.00020	mg/m3
Barium	0.075	<0.075	<0.00010	mg/m3
Beryllium	0.0075	<0.0075	<0.000010	mg/m3
Bismuth	0.075	<0.075	<0.00010	mg/m3
Boron	1.5	<1.5	<0.0020	mg/m3
Cadmium	0.015	<0.015	<0.000020	mg/m3
Calcium	75.	<75	<0.10	mg/m3
Chromium	7.5	<7.5	<0.010	mg/m3
Cobalt	0.045	<0.045	<0.000060	mg/m3
Copper	0.30	<0.30	<0.00040	mg/m3
Indium	0.75	<0.75	<0.0010	mg/m3
Iron	7.5	<7.5	<0.010	mg/m3
Lanthanum	0.15	<0.15	<0.00020	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-4 **Air Volume : 746 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.00010	mg/m3
Lithium	0.15	<0.15	<0.00020	mg/m3
Magnesium	7.5	<7.5	<0.010	mg/m3
Manganese	0.15	<0.15	<0.00020	mg/m3
Molybdenum	0.075	<0.075	<0.00010	mg/m3
Nickel	0.15	<0.15	<0.00020	mg/m3
Phosphorus	15.	<15	<0.020	mg/m3
Potassium	15.	<15	<0.020	mg/m3
Selenium	2.3	<2.3	<0.0030	mg/m3
Silicon	7.5	<7.5	<0.010	mg/m3
Sodium	75.	<75	<0.10	mg/m3
Strontium	0.15	<0.15	<0.00020	mg/m3
Tellurium	0.15	<0.15	<0.00020	mg/m3
Thallium	0.75	<0.75	<0.0010	mg/m3
Titanium	0.75	<0.75	<0.0010	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-4 **Air Volume : 746 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0020	mg/m3
Uranium	0.15	<0.15	<0.00020	mg/m3
Vanadium	0.45	<0.45	<0.00060	mg/m3
Yttrium	0.015	<0.015	<0.000020	mg/m3
Zinc	2.3	<2.3	<0.0030	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-5 **Air Volume : 720 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.010	mg/m3
Antimony	0.90	<0.90	<0.0013	mg/m3
Arsenic	0.15	<0.15	<0.00021	mg/m3
Barium	0.075	<0.075	<0.00010	mg/m3
Beryllium	0.0075	<0.0075	<0.000010	mg/m3
Bismuth	0.075	<0.075	<0.00010	mg/m3
Boron	1.5	<1.5	<0.0021	mg/m3
Cadmium	0.015	<0.015	<0.000021	mg/m3
Calcium	75.	<75	<0.10	mg/m3
Chromium	7.5	<7.5	<0.010	mg/m3
Cobalt	0.045	<0.045	<0.000063	mg/m3
Copper	0.30	<0.30	<0.00042	mg/m3
Indium	0.75	<0.75	<0.0010	mg/m3
Iron	7.5	<7.5	<0.010	mg/m3
Lanthanum	0.15	<0.15	<0.00021	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-5 **Air Volume : 720 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.00010	mg/m3
Lithium	0.15	<0.15	<0.00021	mg/m3
Magnesium	7.5	<7.5	<0.010	mg/m3
Manganese	0.15	<0.15	<0.00021	mg/m3
Molybdenum	0.075	<0.075	<0.00010	mg/m3
Nickel	0.15	<0.15	<0.00021	mg/m3
Phosphorus	15.	<15	<0.021	mg/m3
Potassium	15.	<15	<0.021	mg/m3
Selenium	2.3	<2.3	<0.0031	mg/m3
Silicon	7.5	<7.5	<0.010	mg/m3
Sodium	75.	<75	<0.10	mg/m3
Strontium	0.15	<0.15	<0.00021	mg/m3
Tellurium	0.15	<0.15	<0.00021	mg/m3
Thallium	0.75	<0.75	<0.0010	mg/m3
Titanium	0.75	<0.75	<0.0010	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-5 **Air Volume : 720 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0021	mg/m3
Uranium	0.15	<0.15	<0.00021	mg/m3
Vanadium	0.45	<0.45	<0.00063	mg/m3
Yttrium	0.015	<0.015	<0.000021	mg/m3
Zinc	2.3	<2.3	<0.0031	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-6 **Air Volume : 2714.4 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-6 **Air Volume : 2714.4 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-6 **Air Volume : 2714.4 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
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< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-7 **Air Volume : 2866 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-7 **Air Volume : 2866 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-7 **Air Volume : 2866 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-8 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-8 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-8 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-9 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-9 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-9 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-10 **Air Volume : 2717 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-10 **Air Volume : 2717 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-10 **Air Volume : 2717 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-11 **Air Volume : 2856 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-11 **Air Volume : 2856 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-11 **Air Volume : 2856 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-12 **Air Volume : 2844 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-12 **Air Volume : 2844 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-12 **Air Volume : 2844 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-13 **Air Volume : 2749.5 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-13 **Air Volume : 2749.5 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00082	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-13 **Air Volume : 2749.5 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00082	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-14 **Air Volume : 2718.3 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-14 **Air Volume : 2718.3 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-14 **Air Volume : 2718.3 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-15 **Air Volume : 1006.6 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0075	mg/m3
Antimony	0.90	<0.90	<0.00089	mg/m3
Arsenic	0.15	<0.15	<0.00015	mg/m3
Barium	0.075	<0.075	<0.000075	mg/m3
Beryllium	0.0075	<0.0075	<0.0000075	mg/m3
Bismuth	0.075	<0.075	<0.000075	mg/m3
Boron	1.5	<1.5	<0.0015	mg/m3
Cadmium	0.015	<0.015	<0.000015	mg/m3
Calcium	75.	<75	<0.075	mg/m3
Chromium	7.5	<7.5	<0.0075	mg/m3
Cobalt	0.045	<0.045	<0.000045	mg/m3
Copper	0.30	<0.30	<0.00030	mg/m3
Indium	0.75	<0.75	<0.00075	mg/m3
Iron	7.5	<7.5	<0.0075	mg/m3
Lanthanum	0.15	<0.15	<0.00015	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-15 **Air Volume : 1006.6 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000075	mg/m3
Lithium	0.15	<0.15	<0.00015	mg/m3
Magnesium	7.5	<7.5	<0.0075	mg/m3
Manganese	0.15	<0.15	<0.00015	mg/m3
Molybdenum	0.075	<0.075	<0.000075	mg/m3
Nickel	0.15	<0.15	<0.00015	mg/m3
Phosphorus	15.	<15	<0.015	mg/m3
Potassium	15.	<15	<0.015	mg/m3
Selenium	2.3	<2.3	<0.0022	mg/m3
Silicon	7.5	<7.5	<0.0075	mg/m3
Sodium	75.	<75	<0.075	mg/m3
Strontium	0.15	<0.15	<0.00015	mg/m3
Tellurium	0.15	<0.15	<0.00015	mg/m3
Thallium	0.75	<0.75	<0.00075	mg/m3
Titanium	0.75	<0.75	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/07/16

Lab ID : L371933-15 **Air Volume : 1006.6 Liter**
Date Analyzed : 04/11/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0015	mg/m3
Uranium	0.15	<0.15	<0.00015	mg/m3
Vanadium	0.45	<0.45	<0.00045	mg/m3
Yttrium	0.015	<0.015	<0.000015	mg/m3
Zinc	2.3	<2.3	<0.0022	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-16 **Air Volume : 1006.6 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0075	mg/m3
Antimony	0.90	<0.90	<0.00089	mg/m3
Arsenic	0.15	<0.15	<0.00015	mg/m3
Barium	0.075	<0.075	<0.000075	mg/m3
Beryllium	0.0075	<0.0075	<0.0000075	mg/m3
Bismuth	0.075	<0.075	<0.000075	mg/m3
Boron	1.5	<1.5	<0.0015	mg/m3
Cadmium	0.015	<0.015	<0.000015	mg/m3
Calcium	75.	<75	<0.075	mg/m3
Chromium	7.5	<7.5	<0.0075	mg/m3
Cobalt	0.045	<0.045	<0.000045	mg/m3
Copper	0.30	<0.30	<0.00030	mg/m3
Indium	0.75	<0.75	<0.00075	mg/m3
Iron	7.5	<7.5	<0.0075	mg/m3
Lanthanum	0.15	<0.15	<0.00015	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-16 **Air Volume : 1006.6 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000075	mg/m3
Lithium	0.15	<0.15	<0.00015	mg/m3
Magnesium	7.5	<7.5	<0.0075	mg/m3
Manganese	0.15	<0.15	<0.00015	mg/m3
Molybdenum	0.075	<0.075	<0.000075	mg/m3
Nickel	0.15	<0.15	<0.00015	mg/m3
Phosphorus	15.	<15	<0.015	mg/m3
Potassium	15.	<15	<0.015	mg/m3
Selenium	2.3	<2.3	<0.0022	mg/m3
Silicon	7.5	<7.5	<0.0075	mg/m3
Sodium	75.	<75	<0.075	mg/m3
Strontium	0.15	<0.15	<0.00015	mg/m3
Tellurium	0.15	<0.15	<0.00015	mg/m3
Thallium	0.75	<0.75	<0.00075	mg/m3
Titanium	0.75	<0.75	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-16 **Air Volume : 1006.6 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0015	mg/m3
Uranium	0.15	<0.15	<0.00015	mg/m3
Vanadium	0.45	<0.45	<0.00045	mg/m3
Yttrium	0.015	<0.015	<0.000015	mg/m3
Zinc	2.3	<2.3	<0.0022	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-17 **Air Volume : 949.2 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0079	mg/m3
Antimony	0.90	<0.90	<0.00095	mg/m3
Arsenic	0.15	<0.15	<0.00016	mg/m3
Barium	0.075	<0.075	<0.000079	mg/m3
Beryllium	0.0075	<0.0075	<0.0000079	mg/m3
Bismuth	0.075	<0.075	<0.000079	mg/m3
Boron	1.5	<1.5	<0.0016	mg/m3
Cadmium	0.015	<0.015	<0.000016	mg/m3
Calcium	75.	<75	<0.079	mg/m3
Chromium	7.5	<7.5	<0.0079	mg/m3
Cobalt	0.045	<0.045	<0.000047	mg/m3
Copper	0.30	<0.30	<0.00032	mg/m3
Indium	0.75	<0.75	<0.00079	mg/m3
Iron	7.5	<7.5	<0.0079	mg/m3
Lanthanum	0.15	<0.15	<0.00016	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-17 **Air Volume : 949.2 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000079	mg/m3
Lithium	0.15	<0.15	<0.00016	mg/m3
Magnesium	7.5	<7.5	<0.0079	mg/m3
Manganese	0.15	<0.15	<0.00016	mg/m3
Molybdenum	0.075	<0.075	<0.000079	mg/m3
Nickel	0.15	<0.15	<0.00016	mg/m3
Phosphorus	15.	<15	<0.016	mg/m3
Potassium	15.	<15	<0.016	mg/m3
Selenium	2.3	<2.3	<0.0024	mg/m3
Silicon	7.5	<7.5	<0.0079	mg/m3
Sodium	75.	<75	<0.079	mg/m3
Strontium	0.15	<0.15	<0.00016	mg/m3
Tellurium	0.15	<0.15	<0.00016	mg/m3
Thallium	0.75	<0.75	<0.00079	mg/m3
Titanium	0.75	<0.75	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-17 **Air Volume : 949.2 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0016	mg/m3
Uranium	0.15	<0.15	<0.00016	mg/m3
Vanadium	0.45	<0.45	<0.00047	mg/m3
Yttrium	0.015	<0.015	<0.000016	mg/m3
Zinc	2.3	<2.3	<0.0024	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-18 **Air Volume : 968.1 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0077	mg/m3
Antimony	0.90	<0.90	<0.00093	mg/m3
Arsenic	0.15	<0.15	<0.00015	mg/m3
Barium	0.075	<0.075	<0.000077	mg/m3
Beryllium	0.0075	<0.0075	<0.0000077	mg/m3
Bismuth	0.075	<0.075	<0.000077	mg/m3
Boron	1.5	<1.5	<0.0015	mg/m3
Cadmium	0.015	<0.015	<0.000015	mg/m3
Calcium	75.	<75	<0.077	mg/m3
Chromium	7.5	<7.5	<0.0077	mg/m3
Cobalt	0.045	<0.045	<0.000046	mg/m3
Copper	0.30	<0.30	<0.00031	mg/m3
Indium	0.75	<0.75	<0.00077	mg/m3
Iron	7.5	<7.5	<0.0077	mg/m3
Lanthanum	0.15	<0.15	<0.00015	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/07/16

Lab ID : L371933-18 **Air Volume : 968.1 Liter**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000077	mg/m3
Lithium	0.15	<0.15	<0.00015	mg/m3
Magnesium	7.5	<7.5	<0.0077	mg/m3
Manganese	0.15	<0.15	<0.00015	mg/m3
Molybdenum	0.075	<0.075	<0.000077	mg/m3
Nickel	0.15	<0.15	<0.00015	mg/m3
Phosphorus	15.	<15	<0.015	mg/m3
Potassium	15.	<15	<0.015	mg/m3
Selenium	2.3	<2.3	<0.0023	mg/m3
Silicon	7.5	<7.5	<0.0077	mg/m3
Sodium	75.	<75	<0.077	mg/m3
Strontium	0.15	<0.15	<0.00015	mg/m3
Tellurium	0.15	<0.15	<0.00015	mg/m3
Thallium	0.75	<0.75	<0.00077	mg/m3
Titanium	0.75	<0.75	<0.00077	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-18 **Air Volume : 968.1 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.0015	mg/m3
Uranium	0.15	<0.15	<0.00015	mg/m3
Vanadium	0.45	<0.45	<0.00046	mg/m3
Yttrium	0.015	<0.015	<0.000015	mg/m3
Zinc	2.3	<2.3	<0.0023	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-19 **Air Volume : 2896.7 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-19 **Air Volume : 2896.7 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-19 **Air Volume : 2896.7 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-20 **Air Volume : 2706 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-20 **Air Volume : 2706 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-20 **Air Volume : 2706 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-21 **Air Volume : 2706 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0028	mg/m3
Antimony	0.90	<0.90	<0.00033	mg/m3
Arsenic	0.15	<0.15	<0.000055	mg/m3
Barium	0.075	<0.075	<0.000028	mg/m3
Beryllium	0.0075	<0.0075	<0.0000028	mg/m3
Bismuth	0.075	<0.075	<0.000028	mg/m3
Boron	1.5	<1.5	<0.00055	mg/m3
Cadmium	0.015	<0.015	<0.0000055	mg/m3
Calcium	75.	<75	<0.028	mg/m3
Chromium	7.5	<7.5	<0.0028	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00028	mg/m3
Iron	7.5	<7.5	<0.0028	mg/m3
Lanthanum	0.15	<0.15	<0.000055	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-21 **Air Volume : 2706 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000028	mg/m3
Lithium	0.15	<0.15	<0.000055	mg/m3
Magnesium	7.5	<7.5	<0.0028	mg/m3
Manganese	0.15	<0.15	<0.000055	mg/m3
Molybdenum	0.075	<0.075	<0.000028	mg/m3
Nickel	0.15	<0.15	<0.000055	mg/m3
Phosphorus	15.	<15	<0.0055	mg/m3
Potassium	15.	<15	<0.0055	mg/m3
Selenium	2.3	<2.3	<0.00083	mg/m3
Silicon	7.5	<7.5	<0.0028	mg/m3
Sodium	75.	<75	<0.028	mg/m3
Strontium	0.15	<0.15	<0.000055	mg/m3
Tellurium	0.15	<0.15	<0.000055	mg/m3
Thallium	0.75	<0.75	<0.00028	mg/m3
Titanium	0.75	<0.75	<0.00028	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-21 **Air Volume : 2706 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00055	mg/m3
Uranium	0.15	<0.15	<0.000055	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000055	mg/m3
Zinc	2.3	<2.3	<0.00083	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-22 **Air Volume : 2609 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0029	mg/m3
Antimony	0.90	<0.90	<0.00034	mg/m3
Arsenic	0.15	<0.15	<0.000057	mg/m3
Barium	0.075	<0.075	<0.000029	mg/m3
Beryllium	0.0075	<0.0075	<0.0000029	mg/m3
Bismuth	0.075	<0.075	<0.000029	mg/m3
Boron	1.5	<1.5	<0.00057	mg/m3
Cadmium	0.015	<0.015	<0.0000057	mg/m3
Calcium	75.	<75	<0.029	mg/m3
Chromium	7.5	<7.5	<0.0029	mg/m3
Cobalt	0.045	<0.045	<0.000017	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00029	mg/m3
Iron	7.5	<7.5	<0.0029	mg/m3
Lanthanum	0.15	<0.15	<0.000057	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-22 **Air Volume : 2609 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000029	mg/m3
Lithium	0.15	<0.15	<0.000057	mg/m3
Magnesium	7.5	<7.5	<0.0029	mg/m3
Manganese	0.15	<0.15	<0.000057	mg/m3
Molybdenum	0.075	<0.075	<0.000029	mg/m3
Nickel	0.15	<0.15	<0.000057	mg/m3
Phosphorus	15.	<15	<0.0057	mg/m3
Potassium	15.	<15	<0.0057	mg/m3
Selenium	2.3	<2.3	<0.00086	mg/m3
Silicon	7.5	<7.5	<0.0029	mg/m3
Sodium	75.	<75	<0.029	mg/m3
Strontium	0.15	<0.15	<0.000057	mg/m3
Tellurium	0.15	<0.15	<0.000057	mg/m3
Thallium	0.75	<0.75	<0.00029	mg/m3
Titanium	0.75	<0.75	<0.00029	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-22 **Air Volume : 2609 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00057	mg/m3
Uranium	0.15	<0.15	<0.000057	mg/m3
Vanadium	0.45	<0.45	<0.00017	mg/m3
Yttrium	0.015	<0.015	<0.0000057	mg/m3
Zinc	2.3	<2.3	<0.00086	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-23 **Air Volume : 2824 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000027	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-23 **Air Volume : 2824 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-23 **Air Volume : 2824 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Site : Aliso Canyon
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Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-24 **Air Volume : 2840 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-24 **Air Volume : 2840 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/06/16

Lab ID : L371933-24 **Air Volume : 2840 Liter**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-25 **Air Volume : 2886 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-25 **Air Volume : 2886 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-25 **Air Volume : 2886 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-26 **Air Volume : 2838 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-26 **Air Volume : 2838 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-26 **Air Volume : 2838 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-27 **Air Volume : 2826 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0027	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	0.10	0.000036	mg/m3
Beryllium	0.0075	<0.0075	<0.0000027	mg/m3
Bismuth	0.075	<0.075	<0.000027	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.027	mg/m3
Chromium	7.5	<7.5	<0.0027	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00011	mg/m3
Indium	0.75	<0.75	<0.00027	mg/m3
Iron	7.5	<7.5	<0.0027	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-27 **Air Volume : 2826 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000027	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0027	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000027	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00080	mg/m3
Silicon	7.5	<7.5	<0.0027	mg/m3
Sodium	75.	<75	<0.027	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00027	mg/m3
Titanium	0.75	<0.75	<0.00027	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-27 **Air Volume : 2826 Liter**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00080	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-28 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/06/16

Lab ID : L371933-28 **Air Volume : NA**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/06/16

Lab ID : L371933-28 **Air Volume : NA**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/06/16

Lab ID : L371933-29 **Air Volume : NA**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]

Lab ID : L371933-29 **Air Volume : NA**

Date Sampled : 04/06/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931265

[redacted]
Date Sampled : 04/06/16

Lab ID : L371933-29 **Air Volume : NA**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 13-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: keg/mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-31 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-31 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-33 **Wipe Area : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-33 **Wipe Area : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-35 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-35 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-37 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	<5.0	<0.050	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-37 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-39 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	<2.5	ug/cm2
Antimony	10.	<10	<0.10	ug/cm2
Barium	5.0	5.4	0.054	ug/cm2
Beryllium	0.50	<0.50	<0.0050	ug/cm2
Cadmium	1.5	<1.5	<0.015	ug/cm2
Chromium	5.0	<5.0	<0.050	ug/cm2
Cobalt	1.5	<1.5	<0.015	ug/cm2
Copper	20.	<20	<0.20	ug/cm2
Iron	250	<250	<2.5	ug/cm2
Lead	10.	<10	<0.10	ug/cm2
Manganese	5.0	<5.0	<0.050	ug/cm2
Molybdenum	2.5	<2.5	<0.025	ug/cm2
Nickel	1.5	<1.5	<0.015	ug/cm2
Strontium	5.0	<5.0	<0.050	ug/cm2
Thallium	50.	<50	<0.50	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-39 **Wipe Area : 100 cm2**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	<0.015	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-41 **Wipe Area : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	250	<250	NA	ug/cm2
Antimony	10.	<10	NA	ug/cm2
Barium	5.0	<5.0	NA	ug/cm2
Beryllium	0.50	<0.50	NA	ug/cm2
Cadmium	1.5	<1.5	NA	ug/cm2
Chromium	5.0	<5.0	NA	ug/cm2
Cobalt	1.5	<1.5	NA	ug/cm2
Copper	20.	<20	NA	ug/cm2
Iron	250	<250	NA	ug/cm2
Lead	10.	<10	NA	ug/cm2
Manganese	5.0	<5.0	NA	ug/cm2
Molybdenum	2.5	<2.5	NA	ug/cm2
Nickel	1.5	<1.5	NA	ug/cm2
Strontium	5.0	<5.0	NA	ug/cm2
Thallium	50.	<50	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931175

[redacted]

Lab ID : L371933-41 **Wipe Area : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/11/16**

Parameter	LOQ ug	Total ug	Conc	Units
Vanadium	1.5	<1.5	NA	ug/cm2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Ghost
Date : 11-APR-16

Submitted by: mhl
NYS DOH # : 11626

Approved by: mlh
Supervisor: KEG QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16
Report ID : 931158

Total Hydrocarbons

[redacted]

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L371933-30	100	130	130	1.3
L371933-32	NA	58	58	NA
L371933-34	100	<40	<40	<0.40
L371933-36	100	<40	<40	<0.40
L371933-38	100	<40	<40	<0.40
L371933-40	NA	<40	<40	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 40. ug
Analytical Method : mod. NIOSH 1500/1501; GC/FID BADGE
OSHA PEL : NA
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp
Date : 11-APR-16
Supervisor: KLD

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16
Report ID : 931168

Isopropyl Alcohol

Lab ID	Area cm2	Raw ug	Total ug	Conc ug/cm2
L371933-30	100	250	260	2.6
L371933-32	NA	99	100	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 5 ug
Analytical Method : mod. NIOSH 1400; GC/FID BADGE
OSHA PEL : 400 ppm (TWA)
Collection Media : OVM Wipe

Submitted by: BDK
Approved by : nkp/dnf
Date : 11-APR-16 NYS DOH # : 11626
Supervisor: KLD QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16
Report ID : 931155

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371933-1	2786.6	0.080	0.029
L371933-2	NA	<0.050	NA
L371933-3	752	<0.050	<0.066
L371933-4	746	0.058	0.078
L371933-5	720	<0.050	<0.069
L371933-6	2714.4	0.28	0.10
L371933-7	2866	0.057	0.020
L371933-8	NA	<0.050	NA
L371933-9	NA	<0.050	NA
L371933-10	2717	<0.050	<0.018
L371933-11	2856	<0.050	<0.018
L371933-12	2844	0.080	0.028
L371933-13	2749.5	<0.050	<0.018
L371933-14	2718.3	0.28	0.10
L371933-15	1006.6	<0.050	<0.050
L371933-16	1006.6	<0.050	<0.050

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: CRI
Approved by : KRK
Date : 11-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 06-APR-16 - 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371933

Date Analyzed : 11-APR-16
Report ID : 931155

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371933-17	949.2	<0.050	<0.053
L371933-18	968.1	<0.050	<0.052
L371933-19	2896.7	<0.050	<0.017
L371933-20	2706	0.077	0.028
L371933-21	2706	0.072	0.027
L371933-22	2609	0.061	0.023
L371933-23	2824	<0.050	<0.018
L371933-24	2840	<0.050	<0.018
L371933-25	2886	<0.050	<0.017
L371933-26	2838	<0.050	<0.018
L371933-27	2826	0.11	0.039
L371933-28	NA	<0.050	NA
L371933-29	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: CRI
Approved by : KRK
Date : 11-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: TJB

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371933 (Report ID: 931175):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(29), im-mwvghost(19)
SW846 6010C is referenced for lead data only.

L371933 (Report ID: 931175):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-13.3%	100%
Antimony	+/-13.3%	100%
Barium	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

Beryllium	+/-8%	101%
Cadmium	+/-7.8%	103%
Chromium	+/-13.3%	100%
Cobalt	+/-13.3%	100%
Copper	+/-13.3%	100%
Iron	+/-13.3%	100%
Lead	+/-26.2%	101%
Manganese	+/-13.3%	100%
Molybdenum	+/-13.3%	100%
Nickel	+/-13.3%	100%
Strontium	+/-13.3%	100%
Thallium	+/-13.3%	100%
Vanadium	+/-13.3%	100%

Parameter	Method	PEL
Aluminum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Antimony	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Barium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Beryllium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cadmium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Chromium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Cobalt	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Copper	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Iron	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Lead	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Manganese	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Molybdenum	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Nickel	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Strontium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Thallium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA
Vanadium	mod. SW846 3051A/3050B/6010C/NIOSH9102 I	NA

L371933 (Report ID: 931265):
Reported results reflect elemental analysis of the requested metals. Certain

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

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Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

L371933 (Report ID: 931265):
compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter.

L371933 (Report ID: 931265):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-10.7%	101%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-12%	107%
Soluble Tungsten	+/-17.5%	103%
Strontium	+/-13.3%	100%
Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

L371933 (Report ID: 931265):

Parameter	Method	PEL
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371933 (Report ID: 931158):
Total ug corrected for a desorption efficiency of 100%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The total VOC analysis should be used for screening purposes only. All values are estimated

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

SGS GALSON LABORATORIES

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

L371933 (Report ID: 931158):
based on the response of n-Hexane. Please contact client services in regards to reporting the sample(s) for the tentatively identified compounds. For the sample(s) that are non-detect no tentative identifications will be provided. The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.

L371933-30,32 (Report ID: 931158):
Tentative Identification includes: Other unknown volatile organic compounds.

L371933 (Report ID: 931158):
Sample results have not been corrected for the blank value. A laboratory blank was prepared and analyzed with the samples. The laboratory blank concentration was less than the detection limit.

L371933 (Report ID: 931158):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Total Hydrocarbons	+/-16.7%	100%

L371933 (Report ID: 931168):
Total ug corrected for a desorption efficiency of 98%.
SOPs: GC-SOP-12(11), GC-SOP-16(16), GC-SOP-9(16)
The standard procedure is to prepare the charcoal wipe in the container that It was received in. These samples were not received in glass containers but were received in plastic. We are unable to prepare the samples in the container they were received in. Effect on the results is unknown.
Sample results have not been corrected for the blank value. A laboratory blank was prepared and analyzed with the samples. The laboratory blank concentration was less than the detection limit.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 06-APR-16 - 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371933
Date Analyzed: 11-APR-16 - 12-APR-16

L371933 (Report ID: 931168):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Isopropyl Alcohol	+/-10.1%	95.9%

L371933 (Report ID: 931155):
SOPs: GRAV-SOP-5(15)
PNOR = Particulates Not Otherwise Regulated.
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ is determined using
SGS Galson Laboratories media, and may not apply to media of different manufacture.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048** **Date:** 4-6-16
	Project Location: Aliso Canyon	LACO. CH - Juin Y.
	Client Reference: Los Angeles County	**Industrial Hygienist:** Hovanes Dekeyan, Wallace Scomies (samplers)
	Rotameter: Sho-Rate **Serial # :** 001292	**Expiration Date:** 5-4-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
84-PVC	↓	↓	2.0	1.9	1000	0949	1429	2786.6	N.W. Corner of Living Room
			Avg:	1.95					*Patio needs to stay open for dog
TB	↓	↓	—	—	—	—	—	—	—
			Avg:	—					
			Avg:						
			Avg:						

808623757145
Date:04/11/16
Shipper:FEDEX
Initials:ZRK
Prep:UNKNOWN

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Scomies	Date: 4-7-16	Time: 1600	Received by: Jhes Cadavid-Ren	Date: 4/7/16	Time: 410
Relinquished by: Jhes Cadavid-Ren	Date: 4-7-16	Time: 411	Received by: [illegible]	Date: 4/7/16	Time: 1613
Relinquished by: COC left to Fedex	Date: 4/7/16	Time: 1800	Received by: [illegible]	Date: 4/11/16	Time: 9:05

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4-07-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Wallace Services/ Howard Dekeyser
	Rotameter: SHO-RATE **Serial # :** 001292	**Expiration Date:** 05-04-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – PVC (19-PVC)~~ CBC-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	2.0	0818	1434	376	752	12.52 mg S/N 334738 NG Classroom AIS corner - Castle Gate School.
			Avg: 2.0						
CBEXT-AVC	↓	↓	2.0	2.0	0830	1443	373	746	9.684 mg S/N 334711 N. outdoor corridor-N
			Avg: 2.0						
CBL-PVC	↓	↓	2.0	2.0	0852	1452	360	720	10.376 mg S/N 334725 N. portion of library
			Avg: 2.0						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Services	**Date:** 4-7-16	**Time:** 1533	**Received by:** JolBL	**Date:** 4/7/17	**Time:** 1546
Relinquished by: JolBR to Fedex	**Date:** 4/7/16	**Time:** 1800	**Received by:** Zachary King	**Date:** 4/11/16	**Time:** 9:05
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	**Project Manager:** Meredith Church mchurch@leightongroup.com; (949) 681-4208	**Project # :** 603287048 **Date:** 4/6/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg / Joel Berman
	Rotameter: 0-15 lpm Sho-Rat **Serial # :** 001336	**Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (12-PVC) 123-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	1.9	1350	1302	1,392	2,714.4	Kitchen table ~3.5ft tall. East side of home.
			Avg: 1.95						
101-PVC			2.0	2.0	1425	1418	1,433	2,866	Living Rm. Fold up table 3ft tall. SE area of house
			Avg: 2.0						
101-PVC-FB							0	0	Living Rm. Field Blank
			Avg:						
101-PVC-TB							0	0	Living Rm-Trip blank
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432—5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	Date: 4/7/16	Time: 1530	**Received by:** [signature]	Date: 4/7/16	Time: 3:40
Relinquished by: [signature]	Date: 4/7/16	Time: 341	**Received by:** [signature]	Date: 4/7/16	Time: 1603
Relinquished by: [signature] to Fedex	Date: 4/7/16	Time: 1800	**Received by:** Zachary King [signature]	Date: 4/11/16	Time: 9:05

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project #: 603287048 **Date:** 4/6/16
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Camila Westberg/Joel Berman
Rotameter: 0-15 lpm Dio Rate **Serial #:** 001336 **Expiration Date:** 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – PVC~~ (~~19-PVC~~) 77-PVC	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	2.0	1.8	0838	0828	1,430	2,717	Dining table, ~3.5ft tall. SE corner of home
			Avg: 1.9						
~~24-PVC~~ 100			2.0	2.0	0946	0934	1,428	2,856	Entry foyer table. 3.5ft tall. N. side of house.
			Avg: 2.0						
100-PVC-EXT			2.0	2.0	0956	0937	1,422	2,844	Backyard under pergola. Table ~3.5ft tall. S. of house.
			Avg: 2.0						
79-PVC			2.0	1.9	1104	1034	1,410	2,749.5	Living Room by entrance. Sofa table, 2ft tall
			Avg: 1.95						
123-PVC			2.0	1.9	1319	1303	1,394	2,718.3	Kitchen table, ~3.5ft tall. East side of house
			Avg: 1.95						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432—5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	**Date:** 4/7/16	**Time:** 1530	**Received by:**	**Date:** 4/7/16	**Time:** 338	
Relinquished by:	**Date:** 4/7/16	**Time:** 338	**Received by:**	**Date:** 4/7/16	**Time:** 1603	
Relinquished by:	**Date:** 4/7/16	**Time:** 1800	**Received by:** Zachary King	**Date:** 4/11/16	**Time:** 0905	

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/7/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill / Lucas Walton	
	Rotameter: Serial # : 001154	Expiration Date: 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/7	Stop Time 4/7	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
106-PVC-1-D.	"	"	2.1	2.0	0725	1536	491	1006.6	room 2138 classroom D
			Avg:	2.05					
106-PVC-1.	"	"	2.1	2.05	0725	1536	491	1006.6	room 2138 classroom 10
			Avg:	2.08					
106-PVC-2.	"	"	2.1	2.0	0744	1527	463	949.2	MPR
			Avg:	2.05					
106-PVC-3.	"	"	2.1	2.1	0806	1547	461	968.1	room 4-108
			Avg:	2.1					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

8 hour samples

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 4/7/16	Time: 1647	Received by:	Date: 4/7/16	Time: 1648	
Relinquished by:	Date: 4/7/16	Time: 1649	Received by:	Date: 4/7/16	Time: 1649	
Relinquished by: to fedex	Date: 4/7/16	Time: 1800	Received by: Zachary King	Date: 4/11/16	Time: 9:05	

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 4/6/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Shannan Hill, Ingrid Zubieta	
	Rotameter: **Serial # :** 001154	**Expiration Date:** 3/21/17	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
29-PVC	"	"	2.1	~~2.0~~ 2.0	1319	1252			
			Avg:	2.05			1413	2896.7	Kitchen Island/dining area
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 4/7/16	**Time:** 1626	**Received by:**	**Date:** 4/7/16	**Time:** 1630
Relinquished by:	**Date:** 4/7/16	**Time:** 1644	**Received by:**	**Date:** 4/7/16	**Time:** 1644
Relinquished by: fedex	**Date:** 4/7/16	**Time:** 1800	**Received by:** Zachary King	**Date:** 4/11/16	**Time:** 9:05

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project # : 603287048
Date: 4-6-16
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Carlos Serrano
Rotameter: EMS **Serial # :** 194588-00 **Expiration Date:** 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals	Avg:						
21-PVC			2.0	1.8	0850	0834	1424	2706	master Bedroom
			Avg: 1.9						
21-PVC-D			2.0	1.8	0850	0834	1424	2706	↓ ↓
			Avg: 1.9						
118-PVC			2.0	1.7	0937	0901	1410	2609	Dining Room
			Avg: 1.85						
50-PVC	↓	↓	2.0	2.0	1032	1004	1412	2824	Kitchen Corenter strong pine-sol scent outside Apt.
			Avg: 2.0						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	**Date:** 4/7/16	**Time:** 1700	**Received by:**	**Date:** 4/7/16	**Time:** 1702	
Relinquished by:	**Date:** 4/7/16	**Time:** 1701	**Received by:**	**Date:** 4/7/16	**Time:** 1705	
Relinquished by: to Fedex	**Date:** 4/11/16	**Time:** 1800	**Received by:** Zachary King	**Date:** 4/11/16	**Time:** 0905	

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-6-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: EMS Serial # : 1945880-00	Expiration Date: 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
28-PVC	↓	↓	2.0	2.0	1312	1252	1420	2840	Living Room
			Avg: 2.0						
41-PVC	↓	↓	2.0	2.1	1434	1402	1408	2886	Living Room
			Avg: 2.05						
102-PVC	↓	↓	2.0	2.0	1618	1557	1419	2838	Kitchen Island
			Avg: 2.0						
102-PVC-Ext.	↓	↓	2.0	2.0	1626	1559	1413	2826	Backyard EXT. Rain Started @1400
			Avg: 2.0						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 4/7/16	Time: 1700	Received by:	Date: 4/7/16	Time: 1701
Relinquished by:	Date: 4/7/16	Time: 1702	Received by: Zachary King	Date: 4/11/16	Time: 1705
Relinquished by: to Fedex	Date: 4/7/16	Time: 1800	Received by:	Date: 9:05	Time:

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4-6-16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano
	Rotameter: EMS Serial # : 194588-00	Expiration Date: 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
102-PVC-B	↓	↓			—	—	30sec	—	Kitchen Island
			Avg: —						
102-PVC-TB.	↓	↓			—	—	~~30~~ 52	—	Kitchen Island
			Avg: —						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 4/7/16	Time: 1700	Received by:	Date: 4/7/16	Time: 1704
Relinquished by:	Date: 4/7/16	Time: 1705	Received by:	Date: 4/7/16	Time: 1705
Relinquished by:	Date: 4/7/16	Time: 1800	Received by: Zachary King	Date: 4/11/16	Time: 9:05

CHAIN OF CUSTODY FORM

(GH)

Page 1 of 1

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	Client: Los Angeles County	Sampler Name: Camilla Westberg / Robin ~~Talamani~~ Fomalont
	Project Location: Aliso Canyon	Date: 4/7/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
123-CD	100cm²	charcoal disk	NW bedroom, 2nd floor above window	NIOSH 1500/1501
123-GH	100cm²	ghost wipe	NW bedroom, 2nd floor above window	NIOSH 7302 all compatible metals
123-CD-TB	0cm²	charcoal disk	Trip Blank	NIOSH 1500/1501
123-GH-TB	0cm²	ghost wipe	Trip Blank	NIOSH 7302 all compatible metals

808623757145
Date:04/11/16
Shipper:FEDEX
Initials:ZRK
Prep:UNKNOWN

SGS Galson
6601 Kirkville Road
East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: Camilla Westberg	Date: 4/7/16	Time: 3:29	Received by:	Date: 4/7/16	Time: 3:30
Relinquished by:	Date: 4/7/16	Time: 1602	Received by: Zach King	Date: 4/8/16	Time: 9:05
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT		
24 HOURS AS POSSIBLE	Project Manager: Meredith Church [redacted]	Project # :603287.048
	Client: Los Angeles County	Sampler Name: Wallace Scorcia / Hayness Peterson
	Project Location: Aliso Canyon	Date: 4-07-16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
125-CD	100 cm²	Charcoal Disk	North in office - at top of ~~cabinets (wall)~~ wall cabinets 4-7-16 WPS	NIOSH 1500/1501
125-GH	↓	Ghost Wipe	"	NIOSH 7300
125-CD-D.		Charcoal Disk	"	NIOSH 1500/1501
125-GH-D		Ghost Wipe	"	NIOSH 7300

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6601 Kirkville Road
East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

METALS– ghost wipes – In Tubes/~~green~~ caps
All compatible Metals, NIOSH 7300 Blue HO 4/07/16

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by: Wallace Scorcia	Date: 4-7-16	Time: 1512	Received by:	Date: 4/7/16	Time: 319	
Relinquished by:	Date: 4/7/16	Time: 320	Received by:	Date: 4/7/16	Time: 1527	
Relinquished by: Fedex	Date: 4/7/16	Time: 1800	Received by: Zoolab K3 Corp	Date:	Time: 4/4/16 4:05	

CHAIN OF CUSTODY FORM

WIPE SAMPLE DATA SHEET

TAT	Project Manager: Meredith Church	Project # :603287.048
24 HOURS AS POSSIBLE	[redacted]	
	Client: Los Angeles County	Sampler Name: Shannan Hill / Lucas Vasquez
	Project Location: Aliso Canyon	Date: 4/7/16

Sample #	Area (Dimensions)	Media	Location / Description	Analysis Requested
124-CD-01149	100cm²	carbon disk	dining area windowsill	NIOSH 1500/1501
124-GH-01154	"	ghost wipe	"	NIOSH 7300
124-CD-FB ~~124-GZ~~	NA " "	carbon Disk	Field Blank	NIOSH 1500/1501
124-GH-FB ~~124-BT~~	" "	ghost wipe	Field Blank	NIOSH 7300

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METALS– ghost wipes – In Tubes/green caps
All compatible Metals, NIOSH 7300

Total Hydrocarbons, badge disk–in tubes/green caps
NIOSH 1500/1501

Relinquished by:	Date: 4/7/16	Time: 1425	Received by:	Date: 4/7/16	Time: 252
Relinquished by:	Date: 4/7/16	Time: 2:55	Received by:	Date: 4/7/16	Time: 1600
Relinquished by:	Date:	Time:	Received by: Zachary King	Date: 4/14/16	Time: 905

Compatible metals for ghost wipes:
Al, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Sr, Tl, V

Compatible metals for filters:
Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y.

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 12, 2016

DOH ELAP #11626 Account# 30549 Login# L371936
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 11, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-1 **Air Volume : 2864 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-1 **Air Volume : 2864 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-1 **Air Volume : 2864 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]
Lab ID : L371936-2 **Air Volume : 2854 Liter**
Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	0.086	0.000030	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	0.57	0.00020	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-2 **Air Volume : 2854 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	14	0.0049	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	0.15	0.000054	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

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Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-2 **Air Volume : 2854 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
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LABORATORY ANALYSIS REPORT

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Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-3 **Air Volume : 2856 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	0.082	0.000029	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	0.53	0.00018	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

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Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-3 **Air Volume : 2856 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	10	0.0036	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000053	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-3 **Air Volume : 2856 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

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Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]
Date Sampled : 04/08/16

Lab ID : L371936-4 **Air Volume : 2854 Liter**
Date Analyzed : 04/12/16

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00032	mg/m3
Arsenic	0.15	<0.15	<0.000053	mg/m3
Barium	0.075	0.098	0.000034	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00053	mg/m3
Cadmium	0.015	<0.015	<0.0000053	mg/m3
Calcium	75.	81	0.028	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	0.66	0.00023	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000053	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

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Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-4 **Air Volume : 2854 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000053	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000053	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000053	mg/m3
Phosphorus	15.	<15	<0.0053	mg/m3
Potassium	15.	<15	<0.0053	mg/m3
Selenium	2.3	<2.3	<0.00079	mg/m3
Silicon	7.5	22	0.0077	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	0.18	0.000062	mg/m3
Tellurium	0.15	<0.15	<0.000053	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-4 **Air Volume : 2854 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00053	mg/m3
Uranium	0.15	<0.15	<0.000053	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000053	mg/m3
Zinc	2.3	<2.3	<0.00079	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-5 **Air Volume : 2898 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-5 **Air Volume : 2898 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-5 **Air Volume : 2898 Liter**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-6 **Air Volume : NA**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-6 **Air Volume : NA**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
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Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931266

[redacted]

Lab ID : L371936-6 **Air Volume : NA**

Date Sampled : 04/08/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 08-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371936

Date Analyzed : 11-APR-16
Report ID : 931148

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371936-1	2864	<0.050	<0.017
L371936-2	2854	0.62	0.22
L371936-3	2856	0.61	0.21
L371936-4	2854	0.66	0.23
L371936-5	2898	0.073	0.025
L371936-6	NA	<0.050	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 11-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 08-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371936
Date Analyzed: 11-APR-16 - 12-APR-16

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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371936 (Report ID: 931266):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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Date Received: 11-APR-16 Login No. : L371936
Date Analyzed: 11-APR-16 - 12-APR-16

L371936 (Report ID: 931266):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-10.7%	101%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-11.4%	106%
Soluble Tungsten	+/-17.5%	103%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : Leighton Consulting, Inc
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Date Sampled : 08-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371936
Date Analyzed: 11-APR-16 - 12-APR-16

Strontium	+/-13.3%	100%
Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 08-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371936
Date Analyzed: 11-APR-16 - 12-APR-16

L371936 (Report ID: 931266):

Parameter	Method	PEL
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371936 (Report ID: 931148):
SOPs: GRAV-SOP-5(15)
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ was determined using SGS Galson Laboratories' media and may not apply to media of different manufacture.
PNOR = Particulates Not Otherwise Regulated.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

Date:04/11/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

L371936

AIR SAMPLING DATA SHEET

RIL

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project #: 603287048 **Date:** 4-8-16
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Robin Fomalont/Wallace Stonicks - Samplers
Rotameter: Sho-Rate **Serial #:** 001292 **Expiration Date:** 5-4-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
74-PVC			2.0	~~1.9~~ 2.0 (W33)	0919	0911	1432	2864	N.E. Corner of home
			Avg:	2.0					
43-PVC			2.0	2.0	1022	1009	1427	2854	Northend of home - 1st floor - driving/living room table
			Avg:	2.0					
43-PVC-D			2.0	2.0	1022	1010	1428	2856	Same as above
			Avg:	2.0					
43-PVC-ARC	↓	↓	2.0	2.0	W22	1009	1427	2854	same as above
			Avg:	2.0					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag Metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, Y & S

SL 4/11/16

SGS Galson
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Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Stonicks	**Date:** 4-8-16	**Time:** 1410	**Received by:**	**Date:** 4/8/16	**Time:** 1413
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:** M. Saint	**Date:** 4/11/16	**Time:** 0936

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-8-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robin Fomalont / Wallace Scovies - Samplers	
	Rotameter: Sho-Rate Serial # : 001292	Expiration Date: 5-4-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
125-PVC			20	20	1157	1206	1449	2898	N. office near door
			Avg:	20					
43-PVC-FB ~~PVC-FC-FB~~			—	—	—	—	—	—	—
			Avg:						
WBS 4-8-16									
			Avg:						
			Avg:						

Galson

SLC 4/11/16

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
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Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Wallace Scovies	Date: 4-8-16	Time: 1401	Received by:	Date: 4/8/16	Time: 1413
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/11/16	Time: 0936

Report Reference Generated 12-APR-16 17:30

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

April 12, 2016

DOH ELAP #11626 Account# 30549 Login# L371938
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on April 11, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-1 **Air Volume : 2395.3 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0031	mg/m3
Antimony	0.90	<0.90	<0.00038	mg/m3
Arsenic	0.15	<0.15	<0.000063	mg/m3
Barium	0.075	<0.075	<0.000031	mg/m3
Beryllium	0.0075	<0.0075	<0.0000031	mg/m3
Bismuth	0.075	<0.075	<0.000031	mg/m3
Boron	1.5	<1.5	<0.00063	mg/m3
Cadmium	0.015	<0.015	<0.0000063	mg/m3
Calcium	75.	<75	<0.031	mg/m3
Chromium	7.5	<7.5	<0.0031	mg/m3
Cobalt	0.045	<0.045	<0.000019	mg/m3
Copper	0.30	<0.30	<0.00013	mg/m3
Indium	0.75	<0.75	<0.00031	mg/m3
Iron	7.5	<7.5	<0.0031	mg/m3
Lanthanum	0.15	<0.15	<0.000063	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-1 **Air Volume : 2395.3 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000031	mg/m3
Lithium	0.15	<0.15	<0.000063	mg/m3
Magnesium	7.5	<7.5	<0.0031	mg/m3
Manganese	0.15	<0.15	<0.000063	mg/m3
Molybdenum	0.075	<0.075	<0.000031	mg/m3
Nickel	0.15	<0.15	<0.000063	mg/m3
Phosphorus	15.	<15	<0.0063	mg/m3
Potassium	15.	<15	<0.0063	mg/m3
Selenium	2.3	<2.3	<0.00094	mg/m3
Silicon	7.5	<7.5	<0.0031	mg/m3
Sodium	75.	<75	<0.031	mg/m3
Strontium	0.15	<0.15	<0.000063	mg/m3
Tellurium	0.15	<0.15	<0.000063	mg/m3
Thallium	0.75	<0.75	<0.00031	mg/m3
Titanium	0.75	<0.75	<0.00031	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-1 **Air Volume : 2395.3 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00063	mg/m3
Uranium	0.15	<0.15	<0.000063	mg/m3
Vanadium	0.45	<0.45	<0.00019	mg/m3
Yttrium	0.015	<0.015	<0.0000063	mg/m3
Zinc	2.3	<2.3	<0.00094	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-2 **Air Volume : 2902.8 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0026	mg/m3
Antimony	0.90	<0.90	<0.00031	mg/m3
Arsenic	0.15	<0.15	<0.000052	mg/m3
Barium	0.075	<0.075	<0.000026	mg/m3
Beryllium	0.0075	<0.0075	<0.0000026	mg/m3
Bismuth	0.075	<0.075	<0.000026	mg/m3
Boron	1.5	<1.5	<0.00052	mg/m3
Cadmium	0.015	<0.015	<0.0000052	mg/m3
Calcium	75.	<75	<0.026	mg/m3
Chromium	7.5	<7.5	<0.0026	mg/m3
Cobalt	0.045	<0.045	<0.000016	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00026	mg/m3
Iron	7.5	<7.5	<0.0026	mg/m3
Lanthanum	0.15	<0.15	<0.000052	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-2 **Air Volume : 2902.8 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000026	mg/m3
Lithium	0.15	<0.15	<0.000052	mg/m3
Magnesium	7.5	<7.5	<0.0026	mg/m3
Manganese	0.15	<0.15	<0.000052	mg/m3
Molybdenum	0.075	<0.075	<0.000026	mg/m3
Nickel	0.15	<0.15	<0.000052	mg/m3
Phosphorus	15.	<15	<0.0052	mg/m3
Potassium	15.	<15	<0.0052	mg/m3
Selenium	2.3	<2.3	<0.00078	mg/m3
Silicon	7.5	<7.5	<0.0026	mg/m3
Sodium	75.	<75	<0.026	mg/m3
Strontium	0.15	<0.15	<0.000052	mg/m3
Tellurium	0.15	<0.15	<0.000052	mg/m3
Thallium	0.75	<0.75	<0.00026	mg/m3
Titanium	0.75	<0.75	<0.00026	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-2 **Air Volume : 2902.8 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00052	mg/m3
Uranium	0.15	<0.15	<0.000052	mg/m3
Vanadium	0.45	<0.45	<0.00016	mg/m3
Yttrium	0.015	<0.015	<0.0000052	mg/m3
Zinc	2.3	<2.3	<0.00078	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-3 **Air Volume : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-3 **Air Volume : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

LABORATORY ANALYSIS REPORT

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FAX: (315) 437-0571
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Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-3 **Air Volume : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-4 **Air Volume : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	NA	mg/m3
Antimony	0.90	<0.90	NA	mg/m3
Arsenic	0.15	<0.15	NA	mg/m3
Barium	0.075	<0.075	NA	mg/m3
Beryllium	0.0075	<0.0075	NA	mg/m3
Bismuth	0.075	<0.075	NA	mg/m3
Boron	1.5	<1.5	NA	mg/m3
Cadmium	0.015	<0.015	NA	mg/m3
Calcium	75.	<75	NA	mg/m3
Chromium	7.5	<7.5	NA	mg/m3
Cobalt	0.045	<0.045	NA	mg/m3
Copper	0.30	<0.30	NA	mg/m3
Indium	0.75	<0.75	NA	mg/m3
Iron	7.5	<7.5	NA	mg/m3
Lanthanum	0.15	<0.15	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

SGS GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
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FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-4 **Air Volume : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	NA	mg/m3
Lithium	0.15	<0.15	NA	mg/m3
Magnesium	7.5	<7.5	NA	mg/m3
Manganese	0.15	<0.15	NA	mg/m3
Molybdenum	0.075	<0.075	NA	mg/m3
Nickel	0.15	<0.15	NA	mg/m3
Phosphorus	15.	<15	NA	mg/m3
Potassium	15.	<15	NA	mg/m3
Selenium	2.3	<2.3	NA	mg/m3
Silicon	7.5	<7.5	NA	mg/m3
Sodium	75.	<75	NA	mg/m3
Strontium	0.15	<0.15	NA	mg/m3
Tellurium	0.15	<0.15	NA	mg/m3
Thallium	0.75	<0.75	NA	mg/m3
Titanium	0.75	<0.75	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-4 **Air Volume : NA**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	NA	mg/m3
Uranium	0.15	<0.15	NA	mg/m3
Vanadium	0.45	<0.45	NA	mg/m3
Yttrium	0.015	<0.015	NA	mg/m3
Zinc	2.3	<2.3	NA	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-5 **Air Volume : 2999 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Aluminum	7.5	<7.5	<0.0025	mg/m3
Antimony	0.90	<0.90	<0.00030	mg/m3
Arsenic	0.15	<0.15	<0.000050	mg/m3
Barium	0.075	<0.075	<0.000025	mg/m3
Beryllium	0.0075	<0.0075	<0.0000025	mg/m3
Bismuth	0.075	<0.075	<0.000025	mg/m3
Boron	1.5	<1.5	<0.00050	mg/m3
Cadmium	0.015	<0.015	<0.0000050	mg/m3
Calcium	75.	<75	<0.025	mg/m3
Chromium	7.5	<7.5	<0.0025	mg/m3
Cobalt	0.045	<0.045	<0.000015	mg/m3
Copper	0.30	<0.30	<0.00010	mg/m3
Indium	0.75	<0.75	<0.00025	mg/m3
Iron	7.5	<7.5	<0.0025	mg/m3
Lanthanum	0.15	<0.15	<0.000050	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-5 **Air Volume : 2999 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Lead	0.075	<0.075	<0.000025	mg/m3
Lithium	0.15	<0.15	<0.000050	mg/m3
Magnesium	7.5	<7.5	<0.0025	mg/m3
Manganese	0.15	<0.15	<0.000050	mg/m3
Molybdenum	0.075	<0.075	<0.000025	mg/m3
Nickel	0.15	<0.15	<0.000050	mg/m3
Phosphorus	15.	<15	<0.0050	mg/m3
Potassium	15.	<15	<0.0050	mg/m3
Selenium	2.3	<2.3	<0.00075	mg/m3
Silicon	7.5	<7.5	<0.0025	mg/m3
Sodium	75.	<75	<0.025	mg/m3
Strontium	0.15	<0.15	<0.000050	mg/m3
Tellurium	0.15	<0.15	<0.000050	mg/m3
Thallium	0.75	<0.75	<0.00025	mg/m3
Titanium	0.75	<0.75	<0.00025	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16 - 12-APR-16
Report ID : 931267

[redacted]

Lab ID : L371938-5 **Air Volume : 2999 Liter**

Date Sampled : 04/07/16 **Date Analyzed : 04/12/16**

Parameter	LOQ ug	Total ug	Conc	Units
Soluble Tungsten	1.5	<1.5	<0.00050	mg/m3
Uranium	0.15	<0.15	<0.000050	mg/m3
Vanadium	0.45	<0.45	<0.00015	mg/m3
Yttrium	0.015	<0.015	<0.0000050	mg/m3
Zinc	2.3	<2.3	<0.00075	mg/m3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: PVC PW 37mm
Date : 12-APR-16

Submitted by: JMR/GJM
NYS DOH # : 11626

Approved by: mlh/keg
Supervisor: KEG QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 07-APR-16
Date Received : 11-APR-16

Account No.: 30549
Login No. : L371938

Date Analyzed : 11-APR-16
Report ID : 931150

Total Dust

[redacted]

Lab ID	Air Vol liter	Total mg	Conc mg/m3
L371938-1	2395.3	<0.050	<0.021
L371938-2	2902.8	<0.050	<0.017
L371938-3	NA	<0.050	NA
L371938-4	NA	<0.050	NA
L371938-5	2999	0.24	0.080

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.050 mg
Analytical Method : mod. NIOSH 0500; Gravimetric
OSHA PEL : PNOR 15 mg/m3 (TWA)
Collection Media : PVC PW 37mm

Submitted by: DCB
Approved by : CRI
Date : 11-APR-16
Supervisor: CRI

NYS DOH # : 11626
QC by: AMD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371938
Date Analyzed: 11-APR-16 - 12-APR-16

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Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L371938 (Report ID: 931267):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-21(7), MT-SOP-9(29), im-mwvfilt(24)
PEL listed refers to Aluminum as total dust.
OSHA PEL: Chromium II and III = 0.5 mg/m3; Chromium metal (as Cr) = 1 mg/m3
OSHA PEL: Copper dust and mist = 1 mg/m3; Copper fume = 0.1 mg/m3
OSHA PEL: Molybdenum soluble compounds, as Mo = 5 mg/m3; Molybdenum and insoluble compound as Mo (total dust) = 15 mg/m3.
PEL listed refers to Phosphorus as yellow phosphorus (only allotrope of phosphorus with an OSHA PEL).
ICP analysis does not differentiate allotropes of phosphorus.
Due to different digestion requirements, Soluble Tungsten should be collected on a separate filter.

<	-Less Than	mg	-Milligrams	m3	-Cubic Meters	kg	-Kilograms	ppm	-Parts per Million
>	-Greater Than	ug	-Micrograms	l	-Liters	NS	-Not Specified	ND	-Not Detected	NA	-Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371938
Date Analyzed: 11-APR-16 - 12-APR-16

L371938 (Report ID: 931267):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report
and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Aluminum	+/-10.9%	104%
Antimony	+/-8.9%	104%
Arsenic	+/-8.7%	105%
Barium	+/-7.1%	102%
Beryllium	+/-10%	104%
Bismuth	+/-13.3%	100%
Boron	+/-10.7%	97.1%
Cadmium	+/-7.3%	104%
Calcium	+/-9.5%	103%
Chromium	+/-10.7%	101%
Cobalt	+/-8.7%	101%
Copper	+/-7.9%	102%
Indium	+/-13.3%	100%
Iron	+/-8.4%	103%
Lanthanum	+/-13.3%	100%
Lead	+/-8%	100%
Lithium	+/-13.3%	100%
Magnesium	+/-10.5%	103%
Manganese	+/-11.2%	103%
Molybdenum	+/-8%	104%
Nickel	+/-11.1%	102%
Phosphorus	+/-9.5%	102%
Potassium	+/-10.5%	103%
Selenium	+/-9.2%	107%
Silicon	+/-13.1%	99.3%
Sodium	+/-11.4%	106%
Soluble Tungsten	+/-17.5%	103%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371938
Date Analyzed: 11-APR-16 - 12-APR-16

Strontium	+/-13.3%	100%
Tellurium	+/-13.3%	100%
Thallium	+/-8.5%	98.6%
Titanium	+/-10.3%	101%
Uranium	+/-13.3%	100%
Vanadium	+/-7.7%	101%
Yttrium	+/-13.3%	100%
Zinc	+/-11.4%	103%

Parameter	Method	PEL
Aluminum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	15 mg/m3 (TWA)
Antimony	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.5 mg/m3 (TWA)
Arsenic	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.01 mg/m3 (TWA)
Barium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.5 mg/m3 (Soluble) (TWA)
Beryllium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.002 mg/m3 (TWA)
Bismuth	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Boron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Cadmium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.005 mg/m3 (TWA)
Calcium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Chromium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Cobalt	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Copper	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	Varies, see footnote
Indium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Iron	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Lanthanum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Lead	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.05 mg/m3 (TWA)
Lithium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	NA
Magnesium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Manganese	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	5 mg/m3 CEIL
Molybdenum	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	Varies, see footnote
Nickel	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Phosphorus	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	0.1 mg/m3 (TWA)
Potassium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 07-APR-16 Account No.: 30549
Date Received: 11-APR-16 Login No. : L371938
Date Analyzed: 11-APR-16 - 12-APR-16

L371938 (Report ID: 931267):

Parameter	Method	PEL
Selenium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.2 mg/m3 (TWA)
Silicon	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Sodium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Soluble Tungsten	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Strontium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP	NA
Tellurium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	0.1 mg/m3 (TWA)
Thallium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	0.1 mg/m3 (Soluble) (TWA)
Titanium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Uranium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	29 CFR 1910.1000 Z-1
Vanadium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA
Yttrium	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/M	1 mg/m3 (TWA)
Zinc	mod. NIOSH 7300/mod. OSHA ID-125G; ICP/I	NA

L371938 (Report ID: 931150):
SOPs: GRAV-SOP-5(15)
Initial tare weighings were not performed by SGS Galson Laboratories. The LOQ was determined using SGS Galson Laboratories' media and may not apply to media of different manufacture.
PNOR = Particulates Not Otherwise Regulated.

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

Date:04/11/16
Shipper:FEDEX
Initials:SK

Prep:UNKNOWN

L3719384

AIR SAMPLING DATA SHEET

R117

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/7
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannan Hill / Lucas Wallin
	Rotameter: Serial # : 001154	Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/7	Stop Time 4/8	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						Before
26-PVC	"	"	2.1	1.3	0846	0815	1409	2395.3	dining room
			Avg:	1.7					
24-PVC	"	"	2.1	2.0	1038	1014	1416	2902.8	dining
			Avg:	2.05					
24-PVC-FB	"	"	~~2.0~~		~~1014~~				field blank
			Avg:						
PVC-TB-Dragon	"	"							trip blank
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag Metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cu, Fe, K, Mg, Mn, Mo, Ni, Na, P, Pb, Sb, Se, Si, Sr, Ti, Tl, V, W, Zn, Bi, In, La, Li, Te, U, SK 4/11/16

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 4/8/16	Time: 1240	Received by:	Date: 4/8/16	Time: 1244
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/11/16	Time: 0936

AIR SAMPLING DATA SHEET

(R11)

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/7/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill / Lucas Waller
	Rotameter: Serial # : 00 1154	Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals			4/7	4/8			
			Avg:						
124-PVC	11	11	2.1	2.1	1146	1134	1428	2999	kitchen countertop Before 4/11/16
			Avg: 2.1						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

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Relinquished by:	Date: 4/8/16	Time: 1240	Received by:	Date: 4/8/16	Time: 1244
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 4/11/16	Time: 0936

Air Samples – Sulfur Compounds

Leighton

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www.alsglobal.com

LABORATORY REPORT

March 30, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 29, 2016. For your reference, these analyses have been assigned our service request number P1601621.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 2:56 pm, Mar 30, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601621
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 29, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601621
Project ID: Aliso Canyon / 603287048

Date Received: 3/29/2016
Time Received: 12:14

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601621-001	Air	3/29/2016	08:59	X
	P1601621-002	Air	3/29/2016	10:09	X
	P1601621-003	Air	3/29/2016	10:41	X
	P1601621-004	Air	3/29/2016	09:44	X
	P1601621-005	Air	3/29/2016	10:15	X
	P1601621-006	Air	3/29/2016	11:17	X

AIR SAMPLING DATA SHEET

P1601621

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: RMA-26-TM V Serial # :	Expiration Date: NA	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
54-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	NA 0855	NA 0855	0858	0859			dining room table
			Avg:						
43-TB 86	Tedlar	ASTM D5504-12 Sulfur Compounds			1008	1009			dining room (no furniture)
			Avg:						
22-TB	Tedlar Bag	ASTM D5504-12 sulfur			1040	1041			dining room table
			Avg:						
~~22-TB~~ DNR									
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/29/16	Time: 1111	Received by:	Date: 3/29/16	Time: 11:11
Relinquished by:	Date: 3/29/16	Time: 11:46	Received by:	Date: 3/29/16	Time: 11:47

3/29/16 12:14 3/29/16 12:14

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AIR SAMPLING DATA SHEET

P1601621

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 3/29/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg/Hovanes Dekeyan

Rotameter: n/a **Serial # :** n/a **Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
4 113-TB	↓	↓			0944				Dining Rm table, ~3ft tall N. side of house
			Avg:						
5 120-TB	↓	↓			1015				Dining Rm Table, ~3.5ft tall, N. side of house
			Avg:						
6 110-TB	↓	↓			1117				Breakfast table in kitchen area ~3.5ft tall, NE side of house
			Avg:						
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	Date: 3/29/16	Time: 1140	Received by:	Date: 3/29/16	Time: 11:47
Relinquished by:	Date: 3/29/16	Time: 11:47	Received by:	Date: 3/29/16	Time: 11:47

3/29/16 12:14 3/29/16 12:14

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601621

Project: Porter Ranch / 603287048

Sample(s) received on: 3/29/16 Date opened: 3/29/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601621-001.01	1 L Zefon Bag					
P1601621-002.01	1 L Zefon Bag					
P1601621-003.01	1 L Zefon Bag					
P1601621-004.01	1 L Zefon Bag					
P1601621-005.01	1 L Zefon Bag					
P1601621-006.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 08:59
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 12:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 10:09
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 12:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 10:41
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 12:57
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	**4.9**	3.5	**3.5**	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	**10**	9.2	**2.8**	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 09:44
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 12:58
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 10:15
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 13:14
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 11:17
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 13:16
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P160329-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/29/16
Time Analyzed: 07:42
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P160329-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/29/16
Time Analyzed: 07:43
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]**e**

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621

ALS Sample ID: P160329-LCS

Test Code: ASTM D 5504-12

Instrument ID: Agilent 7890A/GC22/SCD

Analyst: Mike Conejo

Sample Type: 1 L Zefon Bag

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/29/16

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,110**	**111**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,150**	**115**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,100**	**110**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P160329-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/29/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**893**	**89**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**918**	**92**	60-135	
74-93-1	Methyl Mercaptan	1,000	**931**	**93**	57-140	

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601621
ALS Sample ID: P1601621-003DUP

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 10:41
Date Received: 3/29/16
Date Analyzed: 3/29/16
Time Analyzed: 14:53
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Sample Result		Duplicate Sample Result		Average	% RPD	RPD Limit	Data Qualifier
		µg/m³	ppbV	µg/m³	ppbV	**ppbV**			
7783-06-4	Hydrogen Sulfide	4.95	3.55	5.52	3.96	3.755	**11**	24	
463-58-1	Carbonyl Sulfide	ND	ND	ND	ND	-	-	22	
74-93-1	Methyl Mercaptan	ND	ND	ND	ND	-	-	23	
75-08-1	Ethyl Mercaptan	ND	ND	ND	ND	-	-	23	
75-18-3	Dimethyl Sulfide	ND	ND	ND	ND	-	-	23	
75-15-0	Carbon Disulfide	ND	ND	ND	ND	-	-	23	
75-33-2	Isopropyl Mercaptan	ND	ND	ND	ND	-	-	23	
75-66-1	tert-Butyl Mercaptan	10.2	2.75	10.4	2.81	2.78	**2**	23	
107-03-9	n-Propyl Mercaptan	ND	ND	ND	ND	-	-	23	
624-89-5	Ethyl Methyl Sulfide	ND	ND	ND	ND	-	-	23	
110-02-1	Thiophene	ND	ND	ND	ND	-	-	23	
513-44-0	Isobutyl Mercaptan	ND	ND	ND	ND	-	-	23	
352-93-2	Diethyl Sulfide	ND	ND	ND	ND	-	-	23	
109-79-5	n-Butyl Mercaptan	ND	ND	ND	ND	-	-	23	
624-92-0	Dimethyl Disulfide	ND	ND	ND	ND	-	-	23	
616-44-4	3-Methylthiophene	ND	ND	ND	ND	-	-	23	
110-01-0	Tetrahydrothiophene	ND	ND	ND	ND	-	-	23	
638-02-8	2,5-Dimethylthiophene	ND	ND	ND	ND	-	-	23	
872-55-9	2-Ethylthiophene	ND	ND	ND	ND	-	-	23	
110-81-6	Diethyl Disulfide	ND	ND	ND	ND	-	-	23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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LABORATORY REPORT

March 31, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 30, 2016. For your reference, these analyses have been assigned our service request number P1601634.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 3:36 pm, Mar 31, 2016

Kate Aguilera
Project Manager

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F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601634
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 30, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601634
Project ID: Aliso Canyon / 603287048

Date Received: 3/30/2016
Time Received: 06:46

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601634-001	Air	3/29/2016	13:08	X
P1601634-002	Air	3/29/2016	13:04	X
P1601634-003	Air	3/29/2016	15:04	X
P1601634-004	Air	3/29/2016	15:30	X
P1601634-005	Air	3/29/2016	15:58	X
P1601634-006	Air	3/29/2016	17:25	X
P1601634-007	Air	3/29/2016	12:23	X
P1601634-008	Air	3/29/2016	15:44	X
P1601634-009	Air	3/29/2016	15:45	X
P1601634-010	Air	3/29/2016	16:35	X
P1601634-011	Air	3/29/2016	17:16	X
P1601634-012	Air	3/29/2016	17:59	X

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez / Y. Schmidt	
	Rotameter: Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
30-TB	Tedlarbag	ASTM D5504-12			1301	1309			Bedroom NW side Floor 2
			Avg:						
30-TBD	Tedlar Bag	ASTM D5504-12			1303	1304			Bedroom NW side Floor 2
			Avg:						
65-TB-	"	"			1503	1504			dining room table
			Avg:						
65-TB-Ext	"	"			1529	1530			patio table
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/29/16	Time: 1752	Received by:	Date: 3/29/16	Time: 17:52
Relinquished by:	Date: 3/30/16	Time: 6:46	Received by:	Date: 3/30/16	Time: 6:46

AIR SAMPLING DATA SHEET

TAT		
24-hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/29/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez / Y. Schmidt
	Rotameter: 194588-00 Serial # :	Expiration Date: 5/15/16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg: /		/	/	/	/	-
~~82-PVC~~ 82-TB	1	1	—	—	1557	1558			fireplace front
			Avg:						
76-TB	Tedlar Bag	ASTM D5504-12	—	—	1724	1725			Dining Room, middle of room
			Avg:						
—	—	—							—
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: [signature]	Date: 3/29/16	Time: 1752	Received by: [signature]	Date: 3/29/16	Time: 17:52
Relinquished by: [signature]	Date: 3/30/16	Time: 6:47	Received by: Kate Aguilera	Date: 3/30/16	Time: 6:46

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AIR SAMPLING DATA SHEET

TAT			
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Hovaness Dekeyan	
	Rotameter: n/a Serial # : n/a	Expiration Date: n/a	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
AW 3/29/16 12 WHP-TB	↓	↓			1223				Dining Rm table. ~3.5ft tall N. side of house
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	Date: 3/29/16	Time: 1240	Received by: Marshall Clark	Date: 3/29/16	Time: 1240		
Relinquished by: [illegible]	Date: 3/30/16	Time: 6:47	Received by: Kate Gonzalez	Date: 3/30/16	Time: 6:47		

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 3/29/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Camilla Westberg/Hovaness Dekeyan

Rotameter: n/a **Serial # :** n/a **Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
✓39-TB					1544				Kitchen table, ~3.5ft tall. S. side of house
			Avg:						
✓39-TBD					1545				Kitchen table, ~3.5ft tall S. side of house
			Avg:						
✓90-TB					1635				Dining table by kitchen. 4ft tall. N. side of house
			Avg:						
✓35-TB					1716				Dining table by living Rm. ~3.5ft tall. Center of house.
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	Date: 3/29/16	Time: 1825	Received by: Meredith Church	Date: 3/29/16	Time: 18:25
Relinquished by: [signature]	Date: 3/30/16	Time: 6:47	Received by: Kate Aguirre	Date: 3/30/16	Time: 6:46

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AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg / Hovaness Dekeyan	
	Rotameter: n/a **Serial # :** n/a	**Expiration Date:** n/a	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
94-TB					1759				Dining table in living Rm. ~3.5ft tall. East side of house
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	**Date:** 3/29/16	**Time:** 1825	**Received by:** Meredith Church	**Date:** 3/29/16	**Time:** 1825
Relinquished by: [signature]	**Date:** 3/30/16	**Time:** 6:47	**Received by:** Kate Aguilera	**Date:** 3/30/16	**Time:** 0646

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601634

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/30/16 Date opened: 3/30/16 by: KAGUILERA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☒	☐	☐
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601634-001.01	1 L Zefon Bag					
P1601634-002.01	1 L Zefon Bag					
P1601634-003.01	1 L Zefon Bag					
P1601634-004.01	1 L Zefon Bag					
P1601634-005.01	1 L Zefon Bag					
P1601634-006.01	1 L Zefon Bag					
P1601634-007.01	1 L Zefon Bag					
P1601634-008.01	1 L Zefon Bag					
P1601634-009.01	1 L Zefon Bag					
P1601634-010.01	1 L Zefon Bag					
P1601634-011.01	1 L Zefon Bag					
P1601634-012.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 13:08
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 07:58
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 13:04
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 07:59
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 15:04
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 08:15
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 15:30
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 08:15
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 15:58
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 08:32
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 17:25
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 08:32
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 12:23
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 08:49
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 15:44
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 08:50
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 15:45
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 09:06
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-010

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 16:35
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 09:08
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-011

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 17:16
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 09:23
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P1601634-012

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/29/16
Time Collected: 17:59
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 09:26
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P160330-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Time Analyzed: 07:41
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P160330-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Time Analyzed: 07:41
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P160330-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**783**	**78**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**802**	**80**	60-135	
74-93-1	Methyl Mercaptan	1,000	**736**	**74**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601634
ALS Sample ID: P160330-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**802**	**80**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**776**	**78**	60-135	
74-93-1	Methyl Mercaptan	1,000	**765**	**77**	57-140	

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LABORATORY REPORT

March 31, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 30, 2016. For your reference, these analyses have been assigned our service request number P1601651.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 2:24 pm, Mar 31, 2016

Kate Aguilera
Project Manager

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F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601651
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 30, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601651
Project ID: Aliso Canyon / 603287048

Date Received: 3/30/2016
Time Received: 13:20

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601651-001	Air	3/30/2016	09:15	X
P1601651-002	Air	3/30/2016	11:02	X
P1601651-003	Air	3/30/2016	11:53	X
P1601651-004	Air	3/30/2016	11:55	X
P1601651-005	Air	3/30/2016	09:14	X
P1601651-006	Air	3/30/2016	09:15	X
P1601651-007	Air	3/30/2016	10:18	X
P1601651-008	Air	3/30/2016	10:54	X
P1601651-009	Air	3/30/2016	11:12	X
P1601651-010	Air	3/30/2016	11:59	X

P1601651

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez/IT	
	Rotameter: Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
1 ✓ 7-TB	"	"			0914	0915			living room
			Avg:		0954				
36-TB	"	"			~~0949~~ TC25	0959 ~~1026~~			living room sample leaked out
			Avg:						
2 ✓ 31-TB	"	"			1101	1102			living room
			Avg:						
3 ✓ 34-TB	"	"			1152	1153			~~hall~~ dining room
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1215	Received by:	Date: 3/30/16	Time: 1215
Relinquished by:	Date: 3/30/16	Time: 1320	Received by:	Date: 3/30/16	Time: 1320

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/30/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
34-TB-D	11	11			1154	1155			dining room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1215	Received by:	Date: 3/30/16	Time: 12:18
Relinquished by:	Date: 3/30/16	Time: 1320	Received by:	Date: 3/30/16	Time: 1320

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 9/30/2016
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** HOVANESS DERKEYAN, KURT SEILBERT, IVAN MYERS	
	Rotameter: SKC-RATE **Serial # :** 000394	**Expiration Date:** 05-04-2016	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds		Avg: N/A GRAB SAMPLE					
✓33-TB	↓			Avg:	9:14	9:14	<1 min		BAR CODE 90675-74623
✓33-TB-D	↓	↓		Avg:	9:15	9:15	↓		BARCODE 90675-74624
✓34-TB	↓	↓		Avg:	10:18				90675-74625 RENDERING AREA
✓37-TB	↓	↓		Avg:	10:54				90675-74626 RENDERING ROOM

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	**Date:** 3/30/16	**Time:** 1250	**Received by:**	**Date:** 3/30/16	**Time:** 1250		
Relinquished by:	**Date:** 3/30/16	**Time:** 1320	**Received by:**	**Date:** 3/30/16	**Time:** 1320		

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date:
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist:	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds		Avg:					
37-TB-EXT				Avg:	1112				90675-74670 Exterior / Backyard
91-TB				Avg:	1154				Barcode 90675-75619 Living Room
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1250 PM	Received by:	Date: 3/30/16	Time: 12:50 PM
Relinquished by:	Date: 3/30/16	Time: 1320	Received by:	Date: 3/30/16	Time: 1320

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601651

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/30/16 Date opened: 3/30/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601651-001.01	1 L Zefon Bag					
P1601651-002.01	1 L Zefon Bag					
P1601651-003.01	1 L Zefon Bag					
P1601651-004.01	1 L Zefon Bag					
P1601651-005.01	1 L Zefon Bag					
P1601651-006.01	1 L Zefon Bag					
P1601651-007.01	1 L Zefon Bag					
P1601651-008.01	1 L Zefon Bag					
P1601651-009.01	1 L Zefon Bag					
P1601651-010.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 09:15
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 14:33
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 11:02
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 14:50
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 11:53
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 15:08
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 11:55
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 14:34
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 09:14
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 14:51
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 09:15
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 15:10
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 10:18
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 14:51
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 10:54
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 15:08
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 11:12
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 15:26
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P1601651-010

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 11:59
Date Received: 3/30/16
Date Analyzed: 3/30/16
Time Analyzed: 15:29
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P160330-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Time Analyzed: 07:43
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P160330-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Time Analyzed: 13:42
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P160330-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Time Analyzed: 14:33
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P160330-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,140**	**114**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,130**	**113**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,070**	**107**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P160330-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**888**	**89**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**954**	**95**	60-135	
74-93-1	Methyl Mercaptan	1,000	**851**	**85**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**
[redacted]
Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601651
ALS Sample ID: P160330-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/30/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**789**	**79**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**873**	**87**	60-135	
74-93-1	Methyl Mercaptan	1,000	**832**	**83**	57-140	

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LABORATORY REPORT

April 1, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 31, 2016. For your reference, these analyses have been assigned our service request number P1601655.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601655
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 31, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601655
Project ID: Aliso Canyon / 603287048

Date Received: 3/31/2016
Time Received: 06:56

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601655-001	Air	3/30/2016	13:08	X
P1601655-002	Air	3/30/2016	14:05	X
P1601655-003	Air	3/30/2016	15:04	X
P1601655-004	Air	3/30/2016	16:03	X
P1601655-005	Air	3/30/2016	16:20	X
P1601655-006	Air	3/30/2016	00:00	X
P1601655-007	Air	3/30/2016	13:48	X
P1601655-008	Air	3/30/2016	14:35	X
P1601655-009	Air	3/30/2016	15:34	X
P1601655-010	Air	3/30/2016	17:21	X

P1601655

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AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/30/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez/IH/SH
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
47-TB	11	11			1307	1308			dining room
			Avg:						
69-TB	11	11			1404	1405			living room
			Avg:						
93-TB	11	11			1503	1504			living room
			Avg:						
119-TB	11	11			1602	1603			dining room table
			Avg:						

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2
3

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1742	Received by:	Date: 3/30/16	Time: 1744
Relinquished by: Meredith Church	Date: 3/31/16	Time: 6:56	Received by: Kate Figueroa	Date: 3/31/16	Time: 0656

P1601655

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 03/30/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Hanna Jefferson / Kurt Cushing / Ivan Myers	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						
mdc 57-TB	↓	↓	Avg:		1620	1620	L/min		90675-74541
48-TB-FB	↓	↓	Avg:		14:2[illegible]	"			FB in lab
			Avg:						
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1706	Received by: Meredith	Date: 3/30/16	Time: 1700
Relinquished by:	Date: 3/31/16	Time: 6:56	Received by: Katie Figueroa	Date: 3/31/16	Time: 650

P1601655

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 03/30/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Howard Dickerson / Rick Sebat / Juan Nuñez
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							FIELD VOIDED DUPLICATE SENT DIDN'T
			Avg:						
10-TB	↓	↓			1345	1345	>1min		FOYER @ STAIRS
			Avg:						
~~CCTB-TB~~									~~BARCODE 90675-74545~~ VOID ~~BARCODE 90675-74618~~
			Avg:						
48TB									VOID ~~BARCODE 90675-74546~~ VOID BARCODE 90675-74618
			Avg:		1435	1435			
178 TB	↓	↓			1534	1534			Barcode 90675-74617 Living Room
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1700	Received by: Meredith Church	Date: 3/30/16	Time: 18:00
Relinquished by:	Date: 3/31/16	Time: 6:56	Received by: Kate Aguilera	Date: 3/31/16	Time: 0656

P1601655 Page 4 of 4 MDC

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/30/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez/IH/SH
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
45-TB	"	"			1720	1721			lin'ng room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/30/16	Time: 1742	Received by:	Date: 3/31/16	Time: 1744
Relinquished by:	Date: 3/31/16	Time: 6:56	Received by: Kate Aguilera	Date: 3/31/16	Time: 6:56

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601655

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/31/16 Date opened: 3/31/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601655-001.01	1 L Zefon Bag					
P1601655-002.01	1 L Zefon Bag					
P1601655-003.01	1 L Zefon Bag					
P1601655-004.01	1 L Zefon Bag					
P1601655-005.01	1 L Zefon Bag					
P1601655-006.01	1 L Zefon Bag					
P1601655-007.01	1 L Zefon Bag					
P1601655-008.01	1 L Zefon Bag					
P1601655-009.01	1 L Zefon Bag					
P1601655-010.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers):

sample #6 field blank, filled in lab

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 13:08
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 08:14
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 14:05
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 08:15
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 15:04
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 08:30
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 16:03
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 08:31
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 16:20
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 08:47
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: NA
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 08:50
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 13:48
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 09:04
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 14:35
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 09:09
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655

ALS Sample ID: P1601655-009

Test Code: ASTM D 5504-12

Instrument ID: Agilent 7890A/GC22/SCD

Analyst: Mike Conejo

Sample Type: 1 L Zefon Bag

Test Notes:

Date Collected: 3/30/16

Time Collected: 15:34

Date Received: 3/31/16

Date Analyzed: 3/31/16

Time Analyzed: 09:21

Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P1601655-010

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/30/16
Time Collected: 17:21
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 09:25
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P160331-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Time Analyzed: 07:42
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P160331-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Time Analyzed: 07:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P160331-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,390	**1,540**	**111**	65-138	
463-58-1	Carbonyl Sulfide	2,460	**2,710**	**110**	60-135	
74-93-1	Methyl Mercaptan	1,970	**2,050**	**104**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601655
ALS Sample ID: P160331-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,390	**1,140**	**82**	65-138	
463-58-1	Carbonyl Sulfide	2,460	**2,090**	**85**	60-135	
74-93-1	Methyl Mercaptan	1,970	**1,530**	**78**	57-140	

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LABORATORY REPORT

April 1, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on March 31, 2016. For your reference, these analyses have been assigned our service request number P1601672.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 3:31 pm, Apr 01, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601672
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on March 31, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601672
Project ID: Aliso Canyon / 603287048

Date Received: 3/31/2016
Time Received: 13:17

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601672-001	Air	3/31/2016	08:34	X
P1601672-002	Air	3/31/2016	10:21	X
P1601672-003	Air	3/31/2016	11:39	X
P1601672-004	Air	3/31/2016	11:51	X
P1601672-005	Air	3/31/2016	09:42	X
P1601672-006	Air	3/31/2016	08:14	X
P1601672-007	Air	3/31/2016	09:01	X
P1601672-008	Air	3/31/2016	09:26	X
P1601672-009	Air	3/31/2016	10:42	X
P1601672-010	Air	3/31/2016	11:17	X

P16/1672 Page 1 of 4

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3-31-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	~~Industrial Hygienist:~~ Carlos Sewell	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
32-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			0833	0834			DINNING/KITCHEN
			Avg:						
23-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1020	1021			DINNING/FMC
			Avg:						
14-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1138	1139			DINNING
			Avg:						
14-TB-EXT	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1150	1151			REAR PATIO
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/31/16	Time: 1215	Received by:	Date: 3.31.16	Time: 1215
Relinquished by:	Date: 3/31/16	Time: 1254	Received by:	Date: 3:31:16	Time: 12:54

3/31/16 1317 3/31/16 1317

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p 1668/1672

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/31/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: NA. Shannan Hill	
	Rotameter: Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
36-TB	11	11			0941	0942			living room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/31/16	Time: 1000	Received by:	Date: 3/31/16	Time: 10:04
Relinquished by:	Date: 3/31/16	Time: 1253	Received by:	Date: 3/31/16	Time: 1254

3/31/16 1317 3/31/16 1317

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date: 3-31-16**
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Robert Vasquez, Wallace Sconiers, Joel Berman	
	Rotameter: DickMunnsCo. **Serial # :** 001336	**Expiration Date:** 3-21-2017	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
(6) ✓19-TB	~~19-TB~~ WRS 3-31 Tedlar Bag	↓			0814				Living Room
			Avg:						
(7) ✓40-TB	~~40-TB~~ WRS 3/31 Tedlar Bag				0901				East Dining Room
			Avg:						
(8) ✓52-TB	Tedlar Bag				0926				East Dining Room
			Avg:						
(9) ✓15-TB	Tedlar Bag				1042				East Dining Room
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Wallace Sconiers	**Date:** 3/31/16	**Time:** 12:43	**Received by:** Meredith Church	**Date:** 3/31/16	**Time:** 12:43
Relinquished by:	**Date:** 3/31/16	**Time:** 12:53	**Received by:**	**Date:** 3/31/16	**Time:** 1254

3/31/16 1817 3/31/16 1317

1601672

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date: 3-31-16**

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Robert Vasquez, Wallace Sconiers, Joel Berman

Rotameter: Dick Mumm Co. **Serial # :** 001336 **Expiration Date:** ~~3-21-16~~ WBS 3-31-16 3-21-2017

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
2-TB					1117				West 1st floor living room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

8 of 23

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Wallace	Date: 3/31/16	Time: 12:43	Received by: Meredith Church	Date: 3/31/16	Time: 12:43
Relinquished by: Meredith Church	Date: 3/31/16	Time: 12:53	Received by:	Date: 3/31/16	Time: 1254

3/31/16 1317 3/31/16 1317

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601672

Project: Aliso Canyon / 603287048

Sample(s) received on: 3/31/16 Date opened: 3/31/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601672-001.01	1 L Zefon Bag					
P1601672-002.01	1 L Zefon Bag					
P1601672-003.01	1 L Zefon Bag					
P1601672-004.01	1 L Zefon Bag					
P1601672-005.01	1 L Zefon Bag					
P1601672-006.01	1 L Zefon Bag					
P1601672-007.01	1 L Zefon Bag					
P1601672-008.01	1 L Zefon Bag					
P1601672-009.01	1 L Zefon Bag					
P1601672-010.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 08:34
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 14:49
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 10:21
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:06
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 11:39
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:24
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 11:51
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:39
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 09:42
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:58
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 08:14
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 16:15
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 09:01
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 16:05
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 09:26
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:46
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 10:42
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:27
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P1601672-010

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 11:17
Date Received: 3/31/16
Date Analyzed: 3/31/16
Time Analyzed: 15:08
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P160331-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Time Analyzed: 07:42
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P160331-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Time Analyzed: 07:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P160331-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,390	**1,540**	**111**	65-138	
463-58-1	Carbonyl Sulfide	2,460	**2,710**	**110**	60-135	
74-93-1	Methyl Mercaptan	1,970	**2,050**	**104**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601672
ALS Sample ID: P160331-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/31/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,390	**1,140**	**82**	65-138	
463-58-1	Carbonyl Sulfide	2,460	**2,090**	**85**	60-135	
74-93-1	Methyl Mercaptan	1,970	**1,530**	**78**	57-140	

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LABORATORY REPORT

April 4, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2016. For your reference, these analyses have been assigned our service request number P1601686.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601686
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601686
Project ID: Aliso Canyon / 603287048

Date Received: 4/1/2016
Time Received: 06:47

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601686-001	Air	3/31/2016	13:27	X
	P1601686-002	Air	3/31/2016	13:28	X
	P1601686-003	Air	3/31/2016	15:39	X
	P1601686-004	Air	3/31/2016	16:19	X
	P1601686-005	Air	3/31/2016	17:39	X
	P1601686-006	Air	3/31/2016	14:22	X
	P1601686-007	Air	3/31/2016	15:07	X
	P1601686-008	Air	3/31/2016	17:47	X
	P1601686-009	Air	3/31/2016	17:48	X

AIR SAMPLING DATA SHEET P1601686

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/31/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
5 of 21									
① 56-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1326	1327			LIVING RM
			Avg:						
② 56-TB-D	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1327	1328			LIVING RM
			Avg:						
③ 85-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1538	1539			FAMILY RM
			Avg:						
④ 116-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1618	1619			DINNING RM
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/31/16	Time: 1811	Received by:	Date: 3/31/16	Time: 1814		
Relinquished by:	Date: 3/31/16	Time: 1827	Received by:	Date: 3/31/16	Time: 1811		
4/1/16	6:47	Kate Aguilera	4/1/16	647			

AIR SAMPLING DATA SHEET

F16Ø1686

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/31/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Santos	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
114-TB	TEDLAR BAG	ASTM D5504-12 SULFUR COMPOUNDS			1738	1739			DINNING RM
			Avg:						
			Avg:						
			Avg:						
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 3/31/16	Time: 1812	Received by:		Date: 3/31/16	Time: 1814
Relinquished by:	Date: 3/31/16	Time: 1827	Received by:		Date: 3/31/16	Time: 1811
4/1/16	6:47	Kate Aguilera	4/1/16	647		

AIR SAMPLING DATA SHEET

P16/1686

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3-31-16
	Project Location: Aliso Canyon	Wallace Stevens, Joel Berman	
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: DickMorris Co.	Serial # : 001336	Expiration Date: 3-21-2017

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:		3-31-16 WB3				
6 61-TB	↓	↓			2/422				1st floor living room
			Avg:						
7 63-TB					1507				1st floor dining room
			Avg:						
8 44-TB					1747				2nd floor living room
			Avg:						
9 44-TB-D					1748				2nd floor living room
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:		Date: 3-31-16	Time: 18:25	Received by:	Date: 3/31/16	Time: 1825
Relinquished by:	4/1/16	Date:	Time: 1825	Received by: Kate Figueroa	Date: 0647 4/1/16	Time:

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601686

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/1/16 Date opened: 4/1/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601686-001.01	1 L Zefon Bag					
P1601686-002.01	1 L Zefon Bag					
P1601686-003.01	1 L Zefon Bag					
P1601686-004.01	1 L Zefon Bag					
P1601686-005.01	1 L Zefon Bag					
P1601686-006.01	1 L Zefon Bag					
P1601686-007.01	1 L Zefon Bag					
P1601686-008.01	1 L Zefon Bag					
P1601686-009.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 13:27
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 09:13
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 13:28
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 08:58
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 15:39
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 09:31
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 16:19
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 09:13
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 17:39
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 09:48
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 14:22
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 09:31
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 15:07
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 10:04
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 17:47
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 09:49
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P1601686-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 3/31/16
Time Collected: 17:48
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 10:07
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P160401-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Time Analyzed: 07:31
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P160401-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Time Analyzed: 07:56
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P160401-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,040**	**104**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,070**	**107**	60-135	
74-93-1	Methyl Mercaptan	1,000	**992**	**99**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601686
ALS Sample ID: P160401-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**853**	**85**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**918**	**92**	60-135	
74-93-1	Methyl Mercaptan	1,000	**930**	**93**	57-140	

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LABORATORY REPORT

April 4, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2016. For your reference, these analyses have been assigned our service request number P1601697.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601697
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601697
Project ID: Aliso Canyon / 603287048

Date Received: 4/1/2016
Time Received: 13:10

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601697-001	Air	4/1/2016	08:49	X
P1601697-002	Air	4/1/2016	09:54	X
P1601697-003	Air	4/1/2016	10:39	X
P1601697-004	Air	4/1/2016	10:51	X
P1601697-005	Air	4/1/2016	10:55	X
P1601697-006	Air	4/1/2016	11:40	X
P1601697-007	Air	4/1/2016	08:29	X

P1601697

Page 1 of 3

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/1/16

Project Location: Aliso Canyon

Samplers Shannan Hill, Lucas Wallin

Client Reference: Los Angeles County

Industrial Hygienist: Jim Tang

~~Rotameter:~~ ~~Serial # :~~ ~~Expiration Date:~~

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
89-TB	"	"			0848	0849	1		main living area kitchen counter
			Avg:						
91-TB	"	"			0958	0959	1		dining room table
			Avg:						
25-TB	"	"			1038	1039			kitchen Island
			Avg:						
~~25-SU~~ 25-TBD	"	"			1050	1051			Kitchen Island
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date: 4/1/16	Time: 1215	Received by:	Date: 4/1/16	Time: 1229		
Relinquished by:	Date: 4/1/16	Time: 1232	Received by:	Date: 4/1/16	Time: 1232		

4/1/16 1310 4/1/16 1310

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AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon	SH/LW	
	Client Reference: Los Angeles County	Industrial Hygienist: Jim Tang	
	Rotameter: ~~Serial # :~~	~~Expiration Date:~~	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
25-TB-EXT	11	11			1054	1055	1		patio table
			Avg:						
64-TB	11	11			1139	1140	1		living room
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date: 4/1/16	Time: 1215	Received by:	Date: 4/1/16	Time: 12-29	
Relinquished by:	Date: 4/1/16	Time: 1230	Received by:	Date: 4/1/16	Time: 1232	

4/1/16 1310

4/1/16 1310

P1601697

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/1/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Yvan A. Schmidt
	Rotameter:	Serial # : 003628 (PUMP) Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						
55-TB	Tedlar Bag	ASTM D5504-12			0828	0829	1		Table in Dining Area
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A, Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by: Yvan A. Schmidt	Date: 4/1/16	Time: 1017	Received by:		Date: 4/1/16	Time: 1018
Relinquished by:	Date: 4/1/16	Time: 1232	Received by:		Date: 4/1/16	Time: 1232

4/1/16 1310 4/1/16 1310

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ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601697

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/1/16 Date opened: 4/1/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601697-001.01	1 L Zefon Bag					
P1601697-002.01	1 L Zefon Bag					
P1601697-003.01	1 L Zefon Bag					
P1601697-004.01	1 L Zefon Bag					
P1601697-005.01	1 L Zefon Bag					
P1601697-006.01	1 L Zefon Bag					
P1601697-007.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 08:49
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 13:38
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 09:54
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 13:56
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 10:39
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 14:14
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 10:51
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 14:35
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 10:55
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 14:54
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 11:40
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 14:34
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P1601697-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 08:29
Date Received: 4/1/16
Date Analyzed: 4/1/16
Time Analyzed: 14:15
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P160401-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Time Analyzed: 07:31
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P160401-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Time Analyzed: 07:56
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P160401-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,040**	**104**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,070**	**107**	60-135	
74-93-1	Methyl Mercaptan	1,000	**992**	**99**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601697
ALS Sample ID: P160401-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/01/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**853**	**85**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**918**	**92**	60-135	
74-93-1	Methyl Mercaptan	1,000	**930**	**93**	57-140	

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 2, 2016. For your reference, these analyses have been assigned our service request number P1601714.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 12:35 pm, Apr 05, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601714
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 2, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

Samples 12-TB (P1601714-001), 11-TB (p1601714-002) and 11-TB-D (P1601714-003) were received with insufficient hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory and the data has been flagged to indicate the holding time exceedance.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601714
Project ID: Aliso Canyon / 603287048

Date Received: 4/2/2016
Time Received: 08:20

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601714-001	Air	4/1/2016	08:50	X
P1601714-002	Air	4/1/2016	09:45	X
P1601714-003	Air	4/1/2016	09:46	X
P1601714-004	Air	4/1/2016	10:56	X
P1601714-005	Air	4/1/2016	12:20	X
P1601714-006	Air	4/1/2016	14:20	X
P1601714-007	Air	4/1/2016	15:13	X
P1601714-008	Air	4/1/2016	16:49	X
P1601714-009	Air	4/1/2016	13:20	X
P1601714-010	Air	4/1/2016	14:16	X

1GO1714

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/1/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Kurt Stoddard
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
12-TB					850	850			BARCODE 90675-31213 UNIT XITECH INSTRUMENTS / PINE SN SN 003630 / 034952
			Avg:						
11-TB					945	945			BARCODE 90675-31212
			Avg:						
11-TB-D					9:46	946			BARCODE 90675-31214
			Avg:						
112-TB					1086	1086			BARCODE 90675-74395
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 4/1/16	Time: 1800	Received by:	Date: 4/1/16	Time: 1730
Relinquished by:	Date: 4/2/16	Time: 0820	Received by:	Date: 4/2/16	Time: 0820

PIG01714

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/1/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: KURT SOMERET + LYNN MYERS
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						BARCODE 90675-31211
68-TB					1220	1220	<1min		BARCODE 90675-31218
46-TB			Avg:		1420	1420	<1min		BARCODE 90675-31218
57-TB			Avg:		1512	1513	<1min		BARCODE 90675 31219
71 TB			Avg:		1645	1645	<1min		BARCODE 90675-31218
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 4/1/16	Time: 1800	Received by:	Date: 4/1/16	Time: 1730		
Relinquished by:	Date: 4/4/16	Time: 0820	Received by:	Date: 4/1C	Time: 0820		

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/1/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Jim Tang	
	Rotameter: Serial # :	Expiration Date:	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
97-TB	11	11	—	—	1319	1320	1		dining room
			Avg:						
17-TB	11	11	→		1415	1416	1		kitchen
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 4/1/16	Time: 1645	Received by:	Date: 4/1/16	Time: 1651
Relinquished by:	Date: 04/2/16	Time: 0820	Received by:	Date: 4/2/16	Time: 0820

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601714

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/2/16 Date opened: 4/2/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601714-001.01	1 L Zefon Bag					
P1601714-002.01	1 L Zefon Bag					
P1601714-003.01	1 L Zefon Bag					
P1601714-004.01	1 L Zefon Bag					
P1601714-005.01	1 L Zefon Bag					
P1601714-006.01	1 L Zefon Bag					
P1601714-007.01	1 L Zefon Bag					
P1601714-008.01	1 L Zefon Bag					
P1601714-009.01	1 L Zefon Bag					
P1601714-010.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers):

Courier, Al David, picked up the samples from client site at 8:20 and arrived to the laboratory at 8:55.

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes: **H1**

Date Collected: 4/1/16
Time Collected: 08:50
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 10:48
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	**13**	7.8	**4.2**	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
H1 = Sample analysis performed past holding time. See case narrative.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes: **H1**

Date Collected: 4/1/16
Time Collected: 09:45
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:07
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	**10**	7.8	**3.3**	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
H1 = Sample analysis performed past holding time. See case narrative.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes: **H1**

Date Collected: 4/1/16
Time Collected: 09:46
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:04
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
H1 = Sample analysis performed past holding time. See case narrative.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 10:56
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 10:47
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 12:20
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:23
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 14:20
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 15:13
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:58
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 16:49
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 12:21
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	**11**	7.8	**3.4**	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 13:20
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:46
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P1601714-010

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/1/16
Time Collected: 14:16
Date Received: 4/2/16
Date Analyzed: 4/2/16
Time Analyzed: 11:26
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P160402-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/02/16
Time Analyzed: 10:30
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P160402-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/02/16
Time Analyzed: 10:28
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P160402-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/02/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,150**	**115**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,100**	**110**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,080**	**108**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601714
ALS Sample ID: P160402-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890B/GC30/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/02/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**756**	**76**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**812**	**81**	60-135	
74-93-1	Methyl Mercaptan	1,000	**793**	**79**	57-140	

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LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 4, 2016. For your reference, these analyses have been assigned our service request number P1601736.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601736
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601736
Project ID: Aliso Canyon / 603287048

Date Received: 4/4/2016
Time Received: 12:01

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601736-001	Air	4/4/2016	08:54	X
	P1601736-002	Air	4/4/2016	09:45	X
	P1601736-003	Air	4/4/2016	10:43	X
	P1601736-004	Air	4/4/2016	10:53	X
	P1601736-005	Air	4/4/2016	08:43	X
	P1601736-006	Air	4/4/2016	08:44	X
	P1601736-007	Air	4/4/2016	09:24	X

P1601736

AIR SAMPLING DATA SHEET

TAT **24 hours** **ASAP**	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4/4/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg/Hovanes Dekyan	
	Rotameter: n/a **Serial # :** n/a	**Expiration Date:** n/a	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB) (1) 4-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds		Avg:	0854				Bag# 90675-73291 Grab Sample Dirty Quarter Fitting
(2) 95-TB	↓	↓		Avg:	0945				Bag# 90675-73294 on deck, 2nd floor, Chair
(3) 103-TB-EXT				Avg:	1043				Bag 90675-73295 Backyard, table under overhang
(4) 103-TB				Avg:	1053				Bag 90675-73287 on Dirty Fitting ~ 7.5 PSI
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	**Date:** 4/4/16	**Time:** 1120	**Received by:**	**Date:** 04/04/16	**Time:** 1125
Relinquished by:	**Date:** 4/4/16	**Time:** 1130	**Received by:**	**Date:** 4/4/16	**Time:** 1130

4/4/16 1201 4/4/16 1201

PIVC1736 Page 1 of 1

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/4/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano, Shannon Hill	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
(5) 4-TB	"	"			0842	0843	1		dining room table
			Avg:						
(6) 4-TB-D	"	"			0843	0844	1		dining room table
			Avg:						
(7) 6-TB	"	"			0923	0924	1		kitchen island
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Shannon Hill	Date: 4/4/16	Time: 0945	Received by: Ines Calderon	Date: 4/4/16	Time: 10:00
Relinquished by: Shannon Hill	Date: 4/4/16	Time: 1125	Received by:	Date: 4/4/16	Time: 11:25

4/4/16 1201 4/4/16 1201

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601736

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/4/16 Date opened: 4/4/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601736-001.01	1 L Zefon Bag					
P1601736-002.01	1 L Zefon Bag					
P1601736-003.01	1 L Zefon Bag					
P1601736-004.01	1 L Zefon Bag					
P1601736-005.01	1 L Zefon Bag					
P1601736-006.01	1 L Zefon Bag					
P1601736-007.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 08:54
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 12:41
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 09:45
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 12:57
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 10:43
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 13:14
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 10:53
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 13:31
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 08:43
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 14:03
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 08:44
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 14:22
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P1601736-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 09:24
Date Received: 4/4/16
Date Analyzed: 4/4/16
Time Analyzed: 14:38
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P160404-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/04/16
Time Analyzed: 07:44
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601736
ALS Sample ID: P160404-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/04/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**929**	**93**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,030**	**103**	60-135	
74-93-1	Methyl Mercaptan	1,000	**988**	**99**	57-140	

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www.alsglobal.com

LABORATORY REPORT

April 5, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 4, 2016. For your reference, these analyses have been assigned our service request number P1601750.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 3:54 pm, Apr 05, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601750
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601750
Project ID: Aliso Canyon / 603287048

Date Received: 4/4/2016
Time Received: 16:29

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601750-001	Air	4/4/2016	10:30	X
P1601750-002	Air	4/4/2016	11:12	X
P1601750-003	Air	4/4/2016	11:31	X
P1601750-004	Air	4/4/2016	13:59	X
P1601750-005	Air	4/4/2016	15:15	X
P1601750-006	Air	4/4/2016	13:04	X
P1601750-007	Air	4/4/2016	14:10	X
P1601750-008	Air	4/4/2016	15:00	X
P1601750-009	Air	4/4/2016	12:05	X

P1601750

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/4/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano, Shannan Hill
	Rotameter: — Serial # : —	Expiration Date: —

	Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
	Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						
1	42-TB	"	"			1029	1030	1		kitchen island
				Avg:						
2	70-TB	"	"			1111	1112	1		counter between dining and living area
				Avg:						
3	70-TB-EXT	"	"			1130	1131	1		window counter
				Avg:						
				Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 4/4/16	Time: 1220	Received by:	Date: 4/4/16	Time: 1225
Relinquished by: to courier	Date: 4/4/16	Time: 1230	Received by:	Date: 4/4/16	Time: 1230

4/4/16 1627 4/4/16 1629

P1601750

Page 1 of 1

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg / Hovaness Dekeyan

Rotameter: n/a **Serial # :** n/a **Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB ~~(19-TB)~~ 51-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds		Avg:	1359		NA	NA	Kitchen counter. N side of house. ~4ft tall. Bar # 9675-73259
53-TB	" "			Avg:	1515		NA	NA	Kitchen table, ~3.5ft tall. West side of home
				Avg:					
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	Date: 4/4/16	Time: 1540	Received by: Jesus Cadena-Perez	Date: 4/4/16	Time: 15:40
Relinquished by: Fed Ex (Courier)	Date: 4/4/16	Time: 1545	Received by:	Date: 4/4/16	Time: 1545

4/4/16 1629 4/4/16 1629

6 of 20

P1C01750

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano, Shannan Hill

Rotameter: ——— Serial # : ——— Expiration Date: ———

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
58-TB	11	11			1303	1304	1	na	living room by fireplace
			Avg:						
60-TB	11	11			1409 AM	1410	1	na	living room
			Avg:						
20-TB	11	11			1459	1500			dining room
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 4/4/16	Time: 1546	Received by:		Date: 4/4/16	Time: 1548
Relinquished by: to LACoDA courier	Date: 4/4/16	Time: 1550	Received by:		Date: 4/4/16	Time: 1550

P1601750

Page 1 of 1

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg/Hovaness Dekeyan

Rotameter: n/a **Serial # :** n/a **Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
117-TB	↓	↓			1205				~~Start~~ Box # 90675-75288 on Kitchen Table ~4 ft
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date: 4/4/16	Time: 1230	Received by:	Date: 4/4/16	Time: 1230
Relinquished by: to courier	Date: 4/4/16	Time: 1230	Received by:	Date: 4/4/16	Time: 1230
4/4/16 1629			4/4/16 1629		

8 of 8

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601750

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/4/16 Date opened: 4/4/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601750-001.01	1 L Zefon Bag					
P1601750-002.01	1 L Zefon Bag					
P1601750-003.01	1 L Zefon Bag					
P1601750-004.01	1 L Zefon Bag					
P1601750-005.01	1 L Zefon Bag					
P1601750-006.01	1 L Zefon Bag					
P1601750-007.01	1 L Zefon Bag					
P1601750-008.01	1 L Zefon Bag					
P1601750-009.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750

ALS Sample ID: P1601750-001

Test Code: ASTM D 5504-12

Instrument ID: Agilent 7890A/GC22/SCD

Analyst: Mike Conejo

Sample Type: 1 L Zefon Bag

Test Notes:

Date Collected: 4/4/16

Time Collected: 10:30

Date Received: 4/4/16

Date Analyzed: 4/5/16

Time Analyzed: 07:57

Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 11:12
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 08:16
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 11:31
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 08:32
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 13:59
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 08:46
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 15:15
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 09:00
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 13:04
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 09:13
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 14:10
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 09:29
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 15:00
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 09:42
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P1601750-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 12:05
Date Received: 4/4/16
Date Analyzed: 4/5/16
Time Analyzed: 09:56
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P160405-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/05/16
Time Analyzed: 07:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601750
ALS Sample ID: P160405-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/05/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**970**	**97**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,110**	**111**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,020**	**102**	57-140	

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LABORATORY REPORT

April 6, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 5, 2016. For your reference, these analyses have been assigned our service request number P1601751.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 2:13 pm, Apr 06, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601751
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 5, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601751
Project ID: Aliso Canyon / 603287048

Date Received: 4/5/2016
Time Received: 06:42

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601751-001	Air	4/4/2016	16:19	X
	P1601751-002	Air	4/4/2016	17:33	X
	P1601751-003	Air	4/4/2016	17:33	X
	P1601751-004	Air	4/4/2016	17:04	X

P1601751

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County **Industrial Hygienist:** Camilla Westberg / Horaness Dekeyan

Rotameter: n/a **Serial # :** n/a **Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
(1) Residence ID Number – TB ~~(19-TB)~~ 81-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds			1619				Kitchen counter, 4ft tall.
				Avg:					
(2) 13-TB	↓	↓			1733				on BoA 90675-73290 Dining Room Table ~3 ft
				Avg:					
(3) 13-TB-D	↓	↓			1738				BoA 90675-73288 on Dining Room Table ~3ft
				Avg:					
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
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Relinquished by: Camilla Westberg	Date: 4/4/16	Time: 1805	Received by:		Date: 4/4/16	Time: 1809.
Relinquished by:	Date: 4/5/16	Time: 642	Received by: Kate Aguilera		Date: 4/5/16	Time: 642

P1601757 Page 1 of 1

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano, Shannar Hill

Rotameter: Serial # : Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
5-TB	11	11			1709	1709			eatin dinrg cable
			Avg:						
			Avg:						
			Avg:						
			Avg:						

6 of 13

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
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Relinquished by:	Date: 4/4/16	Time: 1722	Received by:	Date: 4/4/16	Time: 1722
Relinquished by:	Date: 4/5/16	Time: 643	Received by:	Date: 4/5/16	Time: 643

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601751

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/5/16 Date opened: 4/5/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601751-001.01	1 L Zefon Bag					
P1601751-002.01	1 L Zefon Bag					
P1601751-003.01	1 L Zefon Bag					
P1601751-004.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601751

ALS Sample ID: P1601751-001

Test Code: ASTM D 5504-12

Instrument ID: Agilent 7890A/GC22/SCD

Analyst: Mike Conejo

Sample Type: 1 L Zefon Bag

Test Notes:

Date Collected: 4/4/16

Time Collected: 16:19

Date Received: 4/5/16

Date Analyzed: 4/5/16

Time Analyzed: 10:31

Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601751
ALS Sample ID: P1601751-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 17:33
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 10:48
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601751
ALS Sample ID: P1601751-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 17:33
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 11:05
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601751
ALS Sample ID: P1601751-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/4/16
Time Collected: 17:04
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 11:19
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601751
ALS Sample ID: P160405-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/05/16
Time Analyzed: 07:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601751
ALS Sample ID: P160405-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/05/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**970**	**97**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,110**	**111**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,020**	**102**	57-140	

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www.alsglobal.com

LABORATORY REPORT

April 6, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 5, 2016. For your reference, these analyses have been assigned our service request number P1601768.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 2:13 pm, Apr 06, 2016

Kate Aguilera
Project Manager

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Simi Valley, CA 93065
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F: +1 805 526 7270
www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601768
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 5, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601768
Project ID: Aliso Canyon / 603287048

Date Received: 4/5/2016
Time Received: 13:00

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601768-001	Air	4/5/2016	08:15	X
	P1601768-002	Air	4/5/2016	09:25	X
	P1601768-003	Air	4/5/2016	09:50	X
	P1601768-004	Air	4/5/2016	10:47	X
	P1601768-005	Air	4/5/2016	10:39	X
	P1601768-006	Air	4/5/2016	08:39	X
	P1601768-007	Air	4/5/2016	09:25	X
	P1601768-008	Air	4/5/2016	10:08	X
	P1601768-009	Air	4/5/2016	11:04	X

PLG01768

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 4-5-16
	Project Location: Aliso Canyon	Cynthia Seney-Magaña	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Howaness Dekeyan, Wallace Seemes	
	Rotameter: Sho-Rate **Serial # :** 4131668	**Expiration Date:** 5-4-16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	—	—	—	—	—	—	—
			Avg: —		—				
5 of 19 ✓ 1-TB			—	—	0815	—	—	—	Central room - piano area
			Avg: —						
✓ 107-TB			—	—	0925	—	—	—	South portion - dining room area
			Avg: —						
✓ 107-TB-EXT			—	—	0950	—	—	—	Exterior - Backyard
			Avg: —						
✓ T3-TB			—	—	1047	—	—	—	Central - East - Dining Room Table next to Piano
			Avg: —						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Wallace Seemes	**Date:** 4-5-16	**Time:** 1207	**Received by:** Meredith Church	**Date:** 4/5/16	**Time:** 1207
Relinquished by: Meredith Church	**Date:** 4/5/16	**Time:** 1300	**Received by:** [signature]	**Date:** 4/5/16	**Time:** 1300

[signature] 4/5/16 1324 [signature] 4/5/16 1321

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-5-16
	Project Location: Aliso Canyon	Cynthia Song-Mayeda	
	Client Reference: Los Angeles County	Industrial Hygienist: Hovaness Defegyan, Wallace Scoviers	
	Rotameter: Sho-Rate	Serial # : 4316668	Expiration Date: 5-4-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – TB (19-TB)~~ 67-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	—	—	1139	—	—	—	South-Living/Dining Room table *smoking/odor in home*
			Avg: —						
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Wallace Scoviers	Date: 4-5-16	Time: 1207	Received by: Meredith Church	Date: 4/5/16	Time: 12:07
Relinquished by: Meredith Church	Date: 4/5/16	Time: 1300	Received by: [signature]	Date: 4/5/16	Time: 1300

[signature] 4/5/16 1321 [signature] 4/5/16 1321

D1601768

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: April 5, 2016
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill + Robin Fonglant
	Rotameter: Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						
6 159-TB	"	"			0839	0839			dining room
			Avg:						
7 180-TB	"	"			0925	0925			dining room
			Avg:						
8 187-TB	"	"			1005	1005			first-floor bedroom
			Avg:						
9 188-TB	"	"			1164	104			first floor bedroom
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:		Date: 4/5/16	Time: 1411	Received by: Meredith Church	Date: 4/5/16	Time: 12:07
Relinquished by: Meredith Church		Date: 4/5/16	Time: 1300	Received by:	Date: 4/5/16	Time: 1300

4/5/16 1321 4/5/16 1321

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601768

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/5/16 Date opened: 4/5/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601768-001.01	1 L Zefon Bag					
P1601768-002.01	1 L Zefon Bag					
P1601768-003.01	1 L Zefon Bag					
P1601768-004.01	1 L Zefon Bag					
P1601768-005.01	1 L Zefon Bag					
P1601768-006.01	1 L Zefon Bag					
P1601768-007.01	1 L Zefon Bag					
P1601768-008.01	1 L Zefon Bag					
P1601768-009.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 08:15
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 14:46
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 09:25
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 14:59
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 09:50
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 15:12
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 10:47
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 15:26
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 10:39
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 15:40
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 08:39
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 15:53
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 09:25
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 16:08
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 10:08
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 16:29
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P1601768-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 11:04
Date Received: 4/5/16
Date Analyzed: 4/5/16
Time Analyzed: 16:41
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P160405-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/05/16
Time Analyzed: 14:29
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601768
ALS Sample ID: P160405-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/05/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**974**	**97**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**987**	**99**	60-135	
74-93-1	Methyl Mercaptan	1,000	**975**	**98**	57-140	

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LABORATORY REPORT

April 7, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 6, 2016. For your reference, these analyses have been assigned our service request number P1601780.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 3:20 pm, Apr 07, 2016

Kate Aguilera
Project Manager

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Client: Leighton Consulting, Inc. Service Request No: P1601780
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 6, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601780
Project ID: Aliso Canyon / 603287048

Date Received: 4/6/2016
Time Received: 06:51

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601780-001	Air	4/5/2016	15:59	X
	P1601780-002	Air	4/5/2016	16:01	X
	P1601780-003	Air	4/5/2016	16:54	X
	P1601780-004	Air	4/5/2016	14:02	X
	P1601780-005	Air	4/5/2016	15:44	X
	P1601780-006	Air	4/5/2016	15:46	X
	P1601780-007	Air	4/5/2016	15:44	X

P1601780

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager: Meredith Church** [redacted]	**Project # : 603287048**	**Date:** 4-5-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Shannon Hill & Robin Fornalski	
	Rotameter:	**Serial # :**	**Expiration Date:**

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						
72-TB	"	"			1559	1559			dining room table
			Avg:						
72-TB-D	"	"			1601	1601			"
			Avg:						
27-TB	"	"			1654	1651			dining/kitchen
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	**Date:** 4/5/16	**Time:** 1719	**Received by:**	**Date:** 4/5/16	**Time:** 1730		
Relinquished by: Meredith Church	**Date:** 4/6/16	**Time:** 651	**Received by:** Kate Aguilera	**Date:** 4/6/16	**Time:** 651		

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AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048 **Date:** 4-5-16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Wallace Somers / Hovanes Dekeyan

Rotameter: ~~Star Rate~~ WBS 4-5-16 **Serial # :** — **Expiration Date:** —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							WBS 4-5-16
				Avg:					
115-TB	↓	↓	—		1102				North – diningroom table
				Avg:					
111-TB			—		1544				West - diningroom table
				Avg:					
111-TB-D			—		1546				West - diningroom table
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Wallace Somers	Date: 4-5-16	Time: 1627	Received by: Jeff Bond	Date: 4/5/16	Time: 1630
Relinquished by: Meredith Church	Date: 4/6/16	Time: 0657	Received by: Kate Aguilera	Date: 4/6/16	Time: 0657

6 of 17

P168788

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/5/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds			1-				
			Avg:						
122-TB	Tedlar Bag	ASTM D5504-12			1543	1544	1		One minute grab from Island in the middle of Kitchen
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:		Date: 4/5/16	Time: 1707	Received by:		Date: 4/5/16	Time: 1710
Relinquished by:	Meredith Church	Date: 4/6/16	Time:	Received by:	Kate Aguilera	Date: 4/6/16	Time: 651

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601780

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/6/16 Date opened: 4/6/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601780-001.01	1 L Zefon Bag					
P1601780-002.01	1 L Zefon Bag					
P1601780-003.01	1 L Zefon Bag					
P1601780-004.01	1 L Zefon Bag					
P1601780-005.01	1 L Zefon Bag					
P1601780-006.01	1 L Zefon Bag					
P1601780-007.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 15:59
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 09:15
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 16:01
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 09:29
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 16:54
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 09:45
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 14:02
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 09:59
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 15:44
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 10:13
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 15:46
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 10:26
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P1601780-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/5/16
Time Collected: 15:44
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 10:38
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780
ALS Sample ID: P160406-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/06/16
Time Analyzed: 07:44
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601780

ALS Sample ID: P160406-LCS

Test Code: ASTM D 5504-12

Instrument ID: Agilent 7890A/GC22/SCD

Analyst: Mike Conejo

Sample Type: 1 L Zefon Bag

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/06/16

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,190**	**119**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,240**	**124**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,190**	**119**	57-140	

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LABORATORY REPORT

April 7, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 6, 2016. For your reference, these analyses have been assigned our service request number P1601800.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera
By Kate Aguilera at 3:20 pm, Apr 07, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601800
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 6, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601800
Project ID: Aliso Canyon / 603287048

Date Received: 4/6/2016
Time Received: 14:09

Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
P1601800-001	Air	4/6/2016	08:34	X
P1601800-002	Air	4/6/2016	09:43	X
P1601800-003	Air	4/6/2016	09:48	X
P1601800-004	Air	4/6/2016	11:00	X
P1601800-005	Air	4/6/2016	08:54	X
P1601800-006	Air	4/6/2016	08:56	X
P1601800-007	Air	4/6/2016	09:39	X
P1601800-008	Air	4/6/2016	10:34	X
P1601800-009	Air	4/6/2016	09:45	X

P1601860

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/6/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Joel Berman
	Rotameter: n/a Serial # : n/a	Expiration Date: n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB ~~(10-TB)~~ 4/6/16 77-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds		Avg:	0934				Dining Rm table, ~3.5ft tall. SE corner of home.
~~20-TB~~ 100				Avg:	0943				Entry foyer. Table 3.5ft tall. North side of house
100-TB-EXT				Avg:	0948				Backyard, under pergola, ~3.5ft tall. S. of house.
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	Date: 4/6/16	Time: 1023	Received by:	Date: 4/6/16	Time: 1025		
Relinquished by:	Date: 4/6/16	Time: 1300	Received by:	Date: 4/6/16	Time: 1300		

4/6/16 1409 4/6/16 14:09

1) e 5 of 20
2)
3)

P1CC8800

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/6/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Wasberg/Joel Berman
	Rotameter: n/a Serial # : n/a	Expiration Date: n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB ~~(19 TB)~~ 79-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds			1100				Living Room by entrance sofa table, 2ft tall.
			Avg:						
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Wasberg	Date: 4/6/16	Time: 1120	Received by:	Date: 4/6/16	Time: 1120		
Relinquished by:	Date: 4/6/16	Time: 1300	Received by:	Date: 4/16/16	Time: 1300		

4/6/16 1907 4/6/16 19:09

(4) 6 of 20

+160 1800

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-6-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Carlos Serrano	
	Rotameter: ———	Serial # : ———	Expiration Date: ———

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
21-TB			~~853~~ 52 Avg:		853	854	1		master Bedroom
21-TB-D			Avg:		855	856	1		↓ ↓
118-TB			Avg:		0938	0939	1		Dining Room
50-TB	↓	↓	Avg:		1033	1034	1		Kitchen Counter Strong pine-sol scent outside Apt.

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date: 4/6/16	Time: 1048	Received by:	Date: 4/6/16	Time: 1049
Relinquished by:	Date: 4/6/16	Time: 1300	Received by:	Date: 4/6/16	Time: 1300

4/6/16 1907 4/6/16 14:09

P1601800

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-6-16
	Project Location: Aliso Canyon	Jim P. of LACo.	
	Client Reference: Los Angeles County	Industrial Hygienist: Hovaness Dekeyan, Wallace Sciences	
	Rotameter: —	Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
S4-TB	↓	↓	—	—	0945	—	—	—	N. Dining Room table
			Avg: —						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by: Wallace Sciences	Date: 4-6-16	Time: 1114	Received by:		Date: 4/6/16	Time: 1115
Relinquished by:	Date: 4/6/16	Time: 1300	Received by:		Date: 4/6/16	Time: 1300

4/6/16 1409 4/6/16 14:09

8 of 20

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601800

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/6/16 Date opened: 4/6/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601800-001.01	1 L Zefon Bag					
P1601800-002.01	1 L Zefon Bag					
P1601800-003.01	1 L Zefon Bag					
P1601800-004.01	1 L Zefon Bag					
P1601800-005.01	1 L Zefon Bag					
P1601800-006.01	1 L Zefon Bag					
P1601800-007.01	1 L Zefon Bag					
P1601800-008.01	1 L Zefon Bag					
P1601800-009.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 08:34
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 14:55
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 09:43
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 14:38
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 09:48
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 15:25
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 11:00
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 15:42
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 08:54
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 15:58
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 08:56
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 16:13
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 09:39
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 16:29
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 10:34
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 16:45
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P1601800-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 09:45
Date Received: 4/6/16
Date Analyzed: 4/6/16
Time Analyzed: 17:01
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P160406-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/06/16
Time Analyzed: 13:04
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601800
ALS Sample ID: P160406-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/06/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**982**	**98**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,090**	**109**	60-135	
74-93-1	Methyl Mercaptan	1,000	**998**	**100**	57-140	

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LABORATORY REPORT

April 8, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601808.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 2:48 pm, Apr 08, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601808
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601808
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 06:52

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601808-001	Air	4/6/2016	13:19	X
	P1601808-002	Air	4/6/2016	14:39	X
	P1601808-003	Air	4/6/2016	16:12	X
	P1601808-004	Air	4/6/2016	16:26	X
	P1601808-005	Air	4/6/2016	13:42	X
	P1601808-006	Air	4/6/2016	13:43	X
	P1601808-007	Air	4/6/2016	14:21	X
	P1601808-008	Air	4/6/2016	13:13	X

P16Φ1808

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AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048	**Date:** 4-6-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	**Industrial Hygienist:** Carlos Serrano	
	Rotameter: —	**Serial # :** —	**Expiration Date:** —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds	Avg:						
28-TB					1318	1319	1 min	—	Dining Room
			Avg: —						
41-TB					1438	1439	1	—	Kitchen Counter
			Avg: —						
102-TB					1611	1612	1	—	Kitchen Island
			Avg: —						
102-TB-EXT.	↓	↓			1625	1626	1	—	Backyard EXT.
			Avg: —						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	**Date:** 4/6/16	**Time:** 1658	**Received by:**	**Date:** 4/6/16	**Time:** 1700
Relinquished by:	**Date:** 4/6/16	**Time:** 17:40	**Received by:**	**Date:** 4/6/16	**Time:** 1740

4/6/16 4/7/16 0651 4/7/16 0652

p16p 1848

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	**Project Manager:** Meredith Church [redacted]	**Project # :** 603287048 **Date:** 4/6/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	**Industrial Hygienist:** Camilla Westberg / Joel Berman
	Rotameter: n/a **Serial # :** n/a	**Expiration Date:** n/a

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB ~~(19-TB)~~ 123-TB	Tedlar Bag	ASTM D5504-12, Sulfur Compounds		Avg:	1342				Kitchen table, ~3.5ft tall. East side of home
123-TBD	↓	↓		Avg:	1343				Kitchen table. ~3.5ft tall. East side of home
101-TB	↓	↓		Avg:	1421				Living Rm table. ~2ft tall. SE area of house
				Avg:					
				Avg:					

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Camilla Westberg	**Date:** 4/6/16	**Time:** 1456	**Received by:**	**Date:** 4/6/16	**Time:** 1503		
Relinquished by:	**Date:** 4/6/16	**Time:** 1740	**Received by:**	**Date:** 4/6/16	**Time:** 1740		

4/6/16 1695 651 4/7/16 0652

Kate Aguilera

6 of 18

P1601808

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/6/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill, Ingrid Zubieta
	Rotameter: NA Serial # : NA	Expiration Date: NA

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
29-TB	11	11			1313	1313	1		living room
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Shannon Hill	Date: 4/6/16	Time: 1354	Received by:	Date: 4/6/16	Time: 1355		
Relinquished by:	Date: 4/6/16	Time: 17:40	Received by: Meredith C	Date: 4/6/16	Time: 17:40		
Jafet B	4/6/16 4/7/16	651	Kate Aguilera	4/7/16	0652		

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601808

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601808-001.01	1 L Zefon Bag					
P1601808-002.01	1 L Zefon Bag					
P1601808-003.01	1 L Zefon Bag					
P1601808-004.01	1 L Zefon Bag					
P1601808-005.01	1 L Zefon Bag					
P1601808-006.01	1 L Zefon Bag					
P1601808-007.01	1 L Zefon Bag					
P1601808-008.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 13:19
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 08:18
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 14:39
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 08:33
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 16:12
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 08:50
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 16:26
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 09:08
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 13:42
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 09:25
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 13:43
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 09:41
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 14:21
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 09:54
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P1601808-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/6/16
Time Collected: 13:13
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 10:07
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P160407-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/07/16
Time Analyzed: 07:56
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601808
ALS Sample ID: P160407-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/07/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**990**	**99**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,020**	**102**	60-135	
74-93-1	Methyl Mercaptan	1,000	**978**	**98**	57-140	

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LABORATORY REPORT

April 8, 2016

Meredith Church
Leighton Consulting, Inc.
17781 Cowan
Irvine, CA 92614-6009

RE: Aliso Canyon / 603287048

Dear Meredith:

Enclosed are the results of the samples submitted to our laboratory on April 7, 2016. For your reference, these analyses have been assigned our service request number P1601839.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Aguilera at 4:51 pm, Apr 08, 2016

Kate Aguilera
Project Manager

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www.alsglobal.com

Client: Leighton Consulting, Inc. Service Request No: P1601839
Project: Aliso Canyon / 603287048

CASE NARRATIVE

The samples were received intact under chain of custody on April 7, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Leighton Consulting, Inc. Service Request: P1601839
Project ID: Aliso Canyon / 603287048

Date Received: 4/7/2016
Time Received: 16:20

[redacted]	Lab Code	Matrix	Date Collected	Time Collected	ASTM D 5504-12 - Sulfur Bag
	P1601839-001	Air	4/7/2016	09:21	X
	P1601839-002	Air	4/7/2016	10:07	X
	P1601839-003	Air	4/7/2016	12:11	X
	P1601839-004	Air	4/7/2016	08:08	X
	P1601839-005	Air	4/7/2016	08:30	X
	P1601839-006	Air	4/7/2016	08:45	X
	P1601839-007	Air	4/7/2016	07:19	X
	P1601839-008	Air	4/7/2016	07:18	X
	P1601839-009	Air	4/7/2016	07:38	X
	P1601839-010	Air	4/7/2016	07:51	X
	P1601839-011	Air	4/7/2016	08:36	X
	P1601839-012	Air	4/7/2016	10:29	X
	P1601839-013	Air	4/7/2016	12:04	X

P1601839

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-7-16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Samplers - Hovanes Dehegan, Wallace Sconico	
	Rotameter: —	Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number - TB (19-TB)~~	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							—
			Avg: —		—	—	—	—	
5 of 26 (1) B 74-TB	↓	↓	—	—	0921				North-livingroom
			Avg: —			—	—	—	
(2) B 43-TB	↓	↓	—	—	1007				North-Dining Room Table-filework-particulates observed on table /livingroom
			Avg: —			—	—	—	
(3) B 125-TB	↓	↓	—	—	1211				North office at desk
			Avg: —			—	—	—	
—	—	—	—	—					
			Avg: —		—	—	—	—	

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Wallace Sconico	4-7-16	1354		4/7/16	1409
	4/7/16	1552		4/7/16	1552
	4/7/16	1620		4/7/16	1620

P1601839

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date:
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Samplers – Hovaness Dekeyan, Wallace Scorcio
	Rotameter: — Serial # : —	Expiration Date: —

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – TB (19-TB)~~	~~Tedlar Bag~~ Tedlar Bag	~~ASTM~~ ok ~~D5504-12~~, 4-7-16 ~~Sulfur~~ WBS ~~Compounds~~							
			Avg: —		—	—	—	—	—
(4) CBC-TB	↓	↓			0808				NE corner of classroom #15 - 2nd floor - Castlebay School
			Avg:						
(5) CBBXT-TB	↓	↓			0830				N outdoor corridor - N of classroom #15
			Avg:						
(6) CBL-TB	↓	↓			0845				N portion of library
			Avg:						
—	—	—	—	—	—	—	—	—	—
			Avg: —		—	—	—	—	—

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

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Relinquished by: Wallace Scorcio	Date: 4-7-16	Time: 1412	Received by:	Date: 4/7/16	Time: ~~1212~~ 1412
Relinquished by:	Date: 4/7/16	Time: 1552	Received by:	Date: 4/7/16	Time: 1552

4/7/16 1620 4/7/16 1620

P1601839

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4/7/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Shannan Hill / Lucas Wallin	
	Rotameter:	Serial # :	Expiration Date:

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
7 106-TB-1	"	"			0719	0719	1		room 2138 classroom 10
			Avg:						
8 ~~106-TB-D~~ 106-TB-1-D	"	"			0718	0718	1		"
			Avg:						
9 106-TB-2	"	"			0738	0738	1		MPR
			Avg:						
10 106-TB-3	"	"			0751	0751	1		Room 4-108
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/7/16	1430	[signature]	4/7/16	1444
Relinquished by: [signature]	Date: 4/7/16	Time: 1552	Received by: [signature]	Date: 4/7/16	Time: 1552
[signature]	4/7/16	1620	[signature]	4/7/16	1620

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/7/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill, Lucas Wallin
	Rotameter: NA Serial # : NA	Expiration Date: NA

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – TB (19-TB)	Tedlar Bag	ASTM D5504-12, Sulfur Compounds							
			Avg:						
26-TB	"	"			0836	0836	1		dining room table
			Avg:						
24-TB	"	"			1029	1029	1		dining table
			Avg:						
124-TB	"	"			1204	1204	1		dining table
			Avg:						
			Avg:						

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Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag, Low level methods

ALS Life Sciences Division | Environmental
2655 Park Center Drive, Suite A , Simi Valley, CA 93065 USA; D +1 805 577 2089 ; T +1 805 526 7161; F +1 805 526 7270

Relinquished by: [signature]	Date: 4/7/16	Time: 1430	Received by: [signature]	Date: 4/7/16	Time: 1444
Relinquished by: [signature]	Date: 4/7/16	Time: 1552	Received by: [signature]	Date: 4/7/16	Time: 1552

4/7/16 1620 4/7/16 1620

ALS Environmental
Sample Acceptance Check Form

Client: Leighton Consulting, Inc. Work order: P1601839

Project: Aliso Canyon / 603287048

Sample(s) received on: 4/7/16 Date opened: 4/7/16 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1601839-001.01	1 L Zefon Bag					
P1601839-002.01	1 L Zefon Bag					
P1601839-003.01	1 L Zefon Bag					
P1601839-004.01	1 L Zefon Bag					
P1601839-005.01	1 L Zefon Bag					
P1601839-006.01	1 L Zefon Bag					
P1601839-007.01	1 L Zefon Bag					
P1601839-008.01	1 L Zefon Bag					
P1601839-009.01	1 L Zefon Bag					
P1601839-010.01	1 L Zefon Bag					
P1601839-011.01	1 L Zefon Bag					
P1601839-012.01	1 L Zefon Bag					
P1601839-013.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 09:21
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 16:48
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-002

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 10:07
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:01
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 12:11
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:14
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 08:08
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:26
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 08:30
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:39
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 08:45
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:52
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 07:19
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 18:04
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 07:18
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 18:17
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 07:38
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 18:07
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-010

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 07:51
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:55
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-011

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 08:36
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:43
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-012

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 10:29
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 18:20
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P1601839-013

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: 4/7/16
Time Collected: 12:04
Date Received: 4/7/16
Date Analyzed: 4/7/16
Time Analyzed: 17:18
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P160407-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/07/16
Time Analyzed: 17:05
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P160407-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 4/07/16
Time Analyzed: 16:19
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	3.5	ND	2.5	
463-58-1	Carbonyl Sulfide	ND	6.1	ND	2.5	
74-93-1	Methyl Mercaptan	ND	4.9	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	6.4	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	6.4	ND	2.5	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	7.8	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	9.2	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	7.8	ND	2.5	
624-89-5	Ethyl Methyl Sulfide	ND	7.8	ND	2.5	
110-02-1	Thiophene	ND	8.6	ND	2.5	
513-44-0	Isobutyl Mercaptan	ND	9.2	ND	2.5	
352-93-2	Diethyl Sulfide	ND	9.2	ND	2.5	
109-79-5	n-Butyl Mercaptan	ND	9.2	ND	2.5	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	10	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	9.0	ND	2.5	
638-02-8	2,5-Dimethylthiophene	ND	11	ND	2.5	
872-55-9	2-Ethylthiophene	ND	11	ND	2.5	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P160407-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/07/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,000**	**100**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,040**	**104**	60-135	
74-93-1	Methyl Mercaptan	1,000	**990**	**99**	57-140	

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Leighton Consulting, Inc.**

[redacted]

Client Project ID: **Aliso Canyon / 603287048**

ALS Project ID: P1601839
ALS Sample ID: P160407-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/07/16
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	**Result ppbV**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,050**	**105**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,120**	**112**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,050**	**105**	57-140	

AIR SAMPLES – CRYSTALLINE SILICA

Leighton

SGS GALSON

Ms. Meredith Church
Leighton Consulting, Inc
17781 Cowan
Irvine, CA 92614

May 06, 2016

DOH ELAP #11626 Account# 30549 Login# L374220
AIHA-LAP #100324

Dear Ms. Church:

Enclosed are the analytical results for the samples received by our laboratory on May 05, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

SGS GALSON

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East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048
Date Sampled : 29-MAR-16 - 06-APR-16
Date Received : 05-MAY-16

Account No.: 30549
Login No. : L374220

Date Analyzed : 05-MAY-16
Report ID : 935540

Silica: Quartz, Cristobalite & Tridymite

[redacted]

Lab ID	Air Vol liter	Quartz mg	Quartz mg/m3	Cristo mg	Cristo mg/m3	Tridym mg	Tridym mg/m3
L374220-1	2838	<0.0050	<0.0018	<0.0050	<0.0018	<0.020	<0.0070
L374220-2	2800	<0.0050	<0.0018	<0.0050	<0.0018	<0.020	<0.0071
L374220-3	3104.6	<0.0050	<0.0016	<0.0050	<0.0016	<0.020	<0.0064
L374220-4	2651	<0.0050	<0.0019	<0.0050	<0.0019	<0.020	<0.0075
L374220-5	2903	<0.0050	<0.0017	<0.0050	<0.0017	<0.020	<0.0069
L374220-6	2923.3	<0.0050	<0.0017	<0.0050	<0.0017	<0.020	<0.0068
L374220-7	2769	<0.0050	<0.0018	<0.0050	<0.0018	<0.020	<0.0072
L374220-8	2866	<0.0050	<0.0017	<0.0050	<0.0017	<0.020	<0.0070

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: Q:0.0050mg; C:0.0050mg; T:0.020mg
Analytical Method : mod. NIOSH 7500/mod. OSHA ID-142; XRD
OSHA PEL : see 1910.1000 (Table Z-3)
Collection Media : PVC PW 37mm

Submitted by: CMR
Approved by : KRK
Date : 06-MAY-16
Supervisor: KRK

NYS DOH # : 11626
QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client Name : Leighton Consulting, Inc
Site : Aliso Canyon
Project No. : 603287048

Date Sampled : 29-MAR-16 - 06-APR-16 Account No.: 30549
Date Received: 05-MAY-16 Login No. : L374220
Date Analyzed: 05-MAY-16

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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L374220 (Report ID: 935540):
SOPs: ix-calibrate(11), ix-xrdashprep(25), ix-xrdreview(13), ix-xrdstdprep(25)

L374220 (Report ID: 935540):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).
The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Cristobalite	+/-11.9%	96.1%
Quartz	+/-11.8%	98.1%
Tridymite	+/-16.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

L374220

R10

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Robert Vasquez	
	Rotameter: 194588-00 Serial # :	Expiration Date: 5/15/16	

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
65-PVC-ARC	PVC 5055/10 NG	~~NIOSH~~ moc 500/2300	2	2.0	1516	1455	1419	2838	dining room table HOLD
			Avg: 2.						
quart 2, crystalline, g tridy	silite,	mite Niosh 7500 crystalline Silica							
			Avg:						
			Avg:						
			Avg:						

809456204092
Date:05/05/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 3/30/16	Time: 1729	Received by:	Date: 3/30/16	Time: 1752
Relinquished by: Meredith Church TO FEDEX	Date: 5/4/16	Time: 11:40	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 5/5/16	Time: 0756

Report Reference 1 Generated 06-MAY-2016 10

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 3/29/16
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Camilla Westberg / Hovaness Dekeyan	
	Rotameter: 001336	Serial # : 442371	Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 5007/7300, Particulates and all compatible metals mPC							
			Avg:						island aw 3/29/16
39-PVC-ARC	↓ NO SKS/5/16	Niosh 7500 crystalline Silica	2.0	2.0	1558	1518	1400	2800	Kitchen ~~table~~, ~3.5ft tall S. side of house
quartz, cristobalite, & tridymite			Avg:	2.0					
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	Date: 3/30/16	Time: 1735	Received by: Meredith Church	Date: 3/30/16	Time: 1735
Relinquished by: Meredith Church (to Fed Ex)	Date: 5/4/16	Time: 11:40	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: [illegible]	Date: 5/5/16	Time: 0756

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 3/30/16 dm
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: Howard DeHerb / Kurt Subat / Dan Myers
	Rotameter: 5/10-RATE Serial # : 000744	Expiration Date: 05-04-2016

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
48-PVC-ARC	SKS/5/16 LVG	X MOC	2.0	2.303	1422	1426	1444	3104.6	SN 341229 14.769 mg Blk Archive Blank
			Avg: 2.15		3/30	3/31			
		Niosh 7500 Crystalline Silica							
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-=5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 3/3/16	Time: 1800	Received by:	Date: 3/3/16	Time: 8:00
Relinquished by: Meredith Church to Ted Ex	Date: 5/4/16	Time: 11:40	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 5/5/16	Time: 0756

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church [redacted]

Project # : 603287048

Date: 4/4/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Carlos Serrano

Rotameter: LF-19 **Serial # :** 194588-00 **Expiration Date:** 5/15/16 (RIA)

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
60-PVC-ARC	11 NB SKds/16	Niosh 7500 Crystalline silica quartz, cristobalite, tridymite	2	1.8	1417	1332	1,395	2,651	living room
			Avg:	1.9					
DH 5-PVC									
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 4/5/16	**Time:** 1708	**Received by:**	**Date:** 4/5/16	**Time:** 1715
Relinquished by: Meredith	**Date:** 5/4/16	**Time:** 1140	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:** 5/5/16	**Time:** 0756

Report Reference 1 Generated:06-MAY-16 16:10

ARCHIVE

AIR SAMPLING DATA SHEET

TAT		
24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048 Date: 4/11/16
	Project Location: Aliso Canyon	
	Client Reference: Los Angeles County	Industrial Hygienist: IVP
	Rotameter: Key Instrum Serial # : 00159	Expiration Date: 4-28-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							ZEFON SN 341240 14.665 mg
			Avg:						↓
112-PVC-ARC	11 11 NG 4/5/16	NIOSH 7500 Crystalline Silica	2.1	2.0	1052	1028	1416	2903	DEN/DINING ROOM
			Avg: 2.05						
~~C.S.~~									
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	Date: 4/12/16	Time: 1640	Received by:	Date: 4/12/16	Time: 1640
Relinquished by: ~~[redacted]~~	Date: 4/12/16	Time: 1655	Received by:	Date: 4/13/16	Time: 0700
Relinquished by:	Date: 5/14/16	Time: 1140	Received by:	Date: 5/15/16	Time: 0756

 Report Reference:1 Generated:06-MAY-16 16:10

AIR SAMPLING DATA SHEET

TAT 24 hours ASAP	Project Manager: Meredith Church [redacted]	Project # : 603287048	Date: 4-5-2016
	Project Location: Aliso Canyon		
	Client Reference: Los Angeles County	Industrial Hygienist: Shannon Hill + Robin Fonalont	
	Rotameter: ~~Required~~	Serial #: HSA 001154	Expiration Date: 3-21-17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time 4/5/16	Stop Time 4/6/16	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	NIOSH 500/7300, Particulates and all compatible metals							
			Avg:						
88-PVC-ARC	11 NG SKS/5/16	Niosh 7500 Crystalline Silica	2.0	2.1	11:14	1100	1426	2923.3	~~Bold~~, first floor bedroom MDC
			Avg: 2.05						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Ingrid Tubi etz	Date: 4/6/16	Time: 1646	Received by: [illegible]	Date: 4/6/16	Time: 1651
Relinquished by: [illegible]	Date: 5/4/16	Time: 1140	Received by:	Date:	Time:
Relinquished by: Meredith Church to FedEx	Date: 5 MDC	Time:	Received by: [illegible]	Date: 5/5/16	Time: 0756

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]
Project # : 603287048
Date: 4-6-16 (R104)
Project Location: Aliso Canyon
Client Reference: Los Angeles County
Industrial Hygienist: Carlos Serrano
Rotameter: EMS **Serial # :** 1945880-00 **Expiration Date:** 5-15-16

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
Residence ID Number – PVC (19-PVC)	PVC Filter	~~NIOSH 5000/7300~~, Particulates and all compatible metals MDL							
			Avg:						
28-PVC-ARC	NB 5/5/16	Crystalline Silica NIOSH 7500	2.0	1.9	1322	1252	1420	2769	Living Room
			Avg:	1.95					
Niosh 7500–	quartz, cristobalite, and tridymite								
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432-5227 (Client Services) Fax: (315) 437-0571

Relinquished by:	**Date:** 4/7/16	**Time:** 1657	**Received by:**	**Date:** 4/7/16	**Time:** 1659
Relinquished by:	**Date:** 4/7/16	**Time:** 1701	**Received by:**	**Date:** 4/8/16	**Time:** 0700
Relinquished by: Meredith Church (to FedEx)	**Date:** 4/7/16	**Time:** 1940	**Received by:**	**Date:** 5/5/16	**Time:** 0756

R101

AIR SAMPLING DATA SHEET

TAT
24 hours
ASAP

Project Manager: Meredith Church
[redacted]

Project # : 603287048

Date: 4/6/16

Project Location: Aliso Canyon

Client Reference: Los Angeles County

Industrial Hygienist: Camilla Westberg / Joel Berman

Rotameter: 0-15 lpm Sho-Rate Serial # : 001336 Expiration Date: 3/21/17

Sample #	Sample Type (filter, tube, badge)	Analysis Method Requested	Flow Rate (L/min) Pre	Flow Rate (L/min) Post	Start Time	Stop Time	Total Time (min)	Total Volume (L)	Location/Description/Remarks
~~Residence ID Number – PVC (1-PVC)~~ 101-PVC-ARC	PVC Filter N6 SES 5/5/16	NIOSH 5000/7300, Particulates and all compatible metals	2.0	2.0	1425	1418	1,433	2.866	Living Room. Fold up table. ~3ft tall. SE area of home.
			Avg: 2.0						
		Niosh 7500 Crystalline Silica							
			Avg:						
			Avg:						
			Avg:						
			Avg:						

Special Instructions to Lab: Quantify TIC; Report to MDL, J-flag

SGS Galson
6601 Kirkville Road, East Syracuse, NY 13057
Phone: (315) 432—5227 (Client Services) Fax: (315) 437-0571

Relinquished by: Camilla Westberg	Date: 4/7/16	Time: 1530	Received by: Jules LaDarth to MRC	Date: 4/7/16	Time: 341
Relinquished by: Meredith Church + FedEx	Date: 5/4/16	Time: 1140	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: M. Kraus	Date: 5/5/16	Time: 0756

Soil and Product Samples – Well SS-25 Area

VOCs, SVOCs, Total Petroleum Hydrocarbons and Metals

Leighton

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Supplemental Report 1

The original report has been revised/corrected.

WORK ORDER NUMBER: 16-04-1366

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: Aliso Canyon / 603287.048

Attention: Meredith Church
17781 Cowan
Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 04/27/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

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Work Order Number: 16-04-1366

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Work Order Narrative

Work Order: 16-04-1366 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/21/16. They were assigned to Work Order 16-04-1366.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-1-A**	**04/20/16 15:00**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 01:09**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	5.1	1.3	1.00	
C7	ND	5.1	1.3	1.00	
C8	ND	5.1	1.3	1.00	
C9-C10	ND	5.1	1.3	1.00	
C11-C12	ND	5.1	1.3	1.00	
C13-C14	ND	5.1	1.3	1.00	
C15-C16	ND	5.1	1.3	1.00	
C17-C18	1.6	5.1	1.3	1.00	J
C19-C20	2.1	5.1	1.3	1.00	J
C21-C22	2.3	5.1	1.3	1.00	J
C23-C24	2.0	5.1	1.3	1.00	J
C25-C28	4.8	5.1	1.3	1.00	J
C29-C32	7.0	5.1	1.3	1.00	
C33-C36	4.9	5.1	1.3	1.00	J
C37-C40	ND	5.1	1.3	1.00	
C41-C44	ND	5.1	1.3	1.00	
C6-C44 Total	25	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-2-A**	**04/20/16 16:10**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 01:26**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	5.0	1.2	1.00	
C7	ND	5.0	1.2	1.00	
C8	ND	5.0	1.2	1.00	
C9-C10	ND	5.0	1.2	1.00	
C11-C12	ND	5.0	1.2	1.00	
C13-C14	ND	5.0	1.2	1.00	
C15-C16	ND	5.0	1.2	1.00	
C17-C18	ND	5.0	1.2	1.00	
C19-C20	ND	5.0	1.2	1.00	
C21-C22	ND	5.0	1.2	1.00	
C23-C24	ND	5.0	1.2	1.00	
C25-C28	1.9	5.0	1.2	1.00	J
C29-C32	3.5	5.0	1.2	1.00	J
C33-C36	3.2	5.0	1.2	1.00	J
C37-C40	ND	5.0	1.2	1.00	
C41-C44	ND	5.0	1.2	1.00	
C6-C44 Total	8.6	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-3-A**	**04/20/16 16:00**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 01:43**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	250	63	50.0	
C7	ND	250	63	50.0	
C8	ND	250	63	50.0	
C9-C10	ND	250	63	50.0	
C11-C12	ND	250	63	50.0	
C13-C14	ND	250	63	50.0	
C15-C16	250	250	63	50.0	
C17-C18	1800	250	63	50.0	
C19-C20	2900	250	63	50.0	
C21-C22	1700	250	63	50.0	
C23-C24	720	250	63	50.0	
C25-C28	1000	250	63	50.0	
C29-C32	1500	250	63	50.0	
C33-C36	790	250	63	50.0	
C37-C40	310	250	63	50.0	
C41-C44	ND	250	63	50.0	
C6-C44 Total	11000	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	131	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-4-A**	**04/20/16 17:15**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 04:54**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	1100	280	25.0	
C7	ND	1100	280	25.0	
C8	ND	1100	280	25.0	
C9-C10	ND	1100	280	25.0	
C11-C12	ND	1100	280	25.0	
C13-C14	3400	1100	280	25.0	
C15-C16	5900	1100	280	25.0	
C17-C18	7300	1100	280	25.0	
C19-C20	5800	1100	280	25.0	
C21-C22	2100	1100	280	25.0	
C23-C24	1400	1100	280	25.0	
C25-C28	1600	1100	280	25.0	
C29-C32	2600	1100	280	25.0	
C33-C36	1300	1100	280	25.0	
C37-C40	ND	1100	280	25.0	
C41-C44	ND	1100	280	25.0	
C6-C44 Total	31000	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-5-A**	**04/20/16 17:30**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 05:12**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	1300	320	25.0	
C7	ND	1300	320	25.0	
C8	ND	1300	320	25.0	
C9-C10	ND	1300	320	25.0	
C11-C12	1200	1300	320	25.0	J
C13-C14	12000	1300	320	25.0	
C15-C16	13000	1300	320	25.0	
C17-C18	15000	1300	320	25.0	
C19-C20	11000	1300	320	25.0	
C21-C22	4800	1300	320	25.0	
C23-C24	2400	1300	320	25.0	
C25-C28	2900	1300	320	25.0	
C29-C32	4500	1300	320	25.0	
C33-C36	2600	1300	320	25.0	
C37-C40	950	1300	320	25.0	J
C41-C44	ND	1300	320	25.0	
C6-C44 Total	70000	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-6-A**	**04/20/16 17:35**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 05:29**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	1200	310	25.0	
C7	ND	1200	310	25.0	
C8	ND	1200	310	25.0	
C9-C10	ND	1200	310	25.0	
C11-C12	ND	1200	310	25.0	
C13-C14	4100	1200	310	25.0	
C15-C16	7100	1200	310	25.0	
C17-C18	8900	1200	310	25.0	
C19-C20	7200	1200	310	25.0	
C21-C22	3400	1200	310	25.0	
C23-C24	1800	1200	310	25.0	
C25-C28	2100	1200	310	25.0	
C29-C32	3200	1200	310	25.0	
C33-C36	2100	1200	310	25.0	
C37-C40	1200	1200	310	25.0	J
C41-C44	ND	1200	310	25.0	
C6-C44 Total	41000	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-7-A**	**04/20/16 18:00**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 05:47**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	2300	570	50.0	
C7	ND	2300	570	50.0	
C8	ND	2300	570	50.0	
C9-C10	ND	2300	570	50.0	
C11-C12	ND	2300	570	50.0	
C13-C14	650	2300	570	50.0	J
C15-C16	5400	2300	570	50.0	
C17-C18	12000	2300	570	50.0	
C19-C20	13000	2300	570	50.0	
C21-C22	6200	2300	570	50.0	
C23-C24	2900	2300	570	50.0	
C25-C28	3400	2300	570	50.0	
C29-C32	5200	2300	570	50.0	
C33-C36	2900	2300	570	50.0	
C37-C40	1100	2300	570	50.0	J
C41-C44	ND	2300	570	50.0	
C6-C44 Total	53000	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-8-A**	**04/20/16 18:50**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 00:52**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	4.9	1.2	1.00	
C7	ND	4.9	1.2	1.00	
C8	ND	4.9	1.2	1.00	
C9-C10	ND	4.9	1.2	1.00	
C11-C12	ND	4.9	1.2	1.00	
C13-C14	ND	4.9	1.2	1.00	
C15-C16	ND	4.9	1.2	1.00	
C17-C18	ND	4.9	1.2	1.00	
C19-C20	ND	4.9	1.2	1.00	
C21-C22	ND	4.9	1.2	1.00	
C23-C24	ND	4.9	1.2	1.00	
C25-C28	1.3	4.9	1.2	1.00	J
C29-C32	3.0	4.9	1.2	1.00	J
C33-C36	ND	4.9	1.2	1.00	
C37-C40	ND	4.9	1.2	1.00	
C41-C44	ND	4.9	1.2	1.00	
C6-C44 Total	4.3	5.0	1.3	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-2051**	**N/A**	**Solid**	**GC 46**	**04/21/16**	**04/21/16 22:00**	**160421B04A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	5.0	1.3	1.00	
C7	ND	5.0	1.3	1.00	
C8	ND	5.0	1.3	1.00	
C9-C10	ND	5.0	1.3	1.00	
C11-C12	ND	5.0	1.3	1.00	
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C28	ND	5.0	1.3	1.00	
C29-C32	ND	5.0	1.3	1.00	
C33-C36	ND	5.0	1.3	1.00	
C37-C40	ND	5.0	1.3	1.00	
C41-C44	ND	5.0	1.3	1.00	
C6-C44 Total	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-1-A**	**04/20/16 15:00**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:41**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.765	0.152	1.02	
Arsenic	7.82	0.765	0.264	1.02	
Barium	224	0.510	0.158	1.02	
Beryllium	0.691	0.255	0.140	1.02	
Cadmium	5.42	0.510	0.138	1.02	
Chromium	25.8	0.255	0.145	1.02	
Cobalt	9.54	0.255	0.151	1.02	
Copper	44.8	0.510	0.137	1.02	
Lead	29.8	0.510	0.134	1.02	
Molybdenum	14.8	0.255	0.135	1.02	
Nickel	74.3	0.255	0.148	1.02	
Phosphorus	1980	5.10	0.255	1.02	
Selenium	ND	0.765	0.306	1.02	
Silver	ND	0.255	0.0875	1.02	
Thallium	0.727	0.765	0.155	1.02	B,J
Vanadium	110	0.255	0.144	1.02	
Zinc	139	1.02	0.181	1.02	
Aluminum	9870	2.55	0.365	1.02	
Calcium	7170	5.10	0.388	1.02	
Iron	21800	5.10	0.136	1.02	
Magnesium	3900	5.10	0.173	1.02	B
Manganese	320	0.255	0.142	1.02	
Potassium	3270	25.5	1.79	1.02	B
Sodium	260	25.5	1.85	1.02	
Strontium	62.3	1.53	0.140	1.02	
Titanium	466	1.53	0.141	1.02	
Boron	6.47	1.02	0.458	1.02	
Silicon	831	5.10	1.34	1.02	
Sulfur, Total	244	5.10	0.814	1.02	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-2-A**	**04/20/16 16:10**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:42**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.728	0.145	0.971	
Arsenic	6.72	0.728	0.252	0.971	
Barium	179	0.485	0.150	0.971	
Beryllium	0.691	0.243	0.133	0.971	
Cadmium	7.40	0.485	0.131	0.971	
Chromium	28.8	0.243	0.138	0.971	
Cobalt	8.20	0.243	0.144	0.971	
Copper	39.0	0.485	0.131	0.971	
Lead	14.3	0.485	0.128	0.971	
Molybdenum	14.6	0.243	0.128	0.971	
Nickel	81.1	0.243	0.141	0.971	
Phosphorus	1230	4.85	0.242	0.971	
Selenium	ND	0.728	0.291	0.971	
Silver	ND	0.243	0.0832	0.971	
Thallium	0.591	0.728	0.147	0.971	B,J
Vanadium	116	0.243	0.137	0.971	
Zinc	122	0.971	0.172	0.971	
Aluminum	8950	2.43	0.347	0.971	
Calcium	5640	4.85	0.369	0.971	
Iron	19200	4.85	0.129	0.971	
Magnesium	3420	4.85	0.164	0.971	B
Manganese	324	0.243	0.135	0.971	
Potassium	2750	24.3	1.70	0.971	B
Sodium	277	24.3	1.76	0.971	
Strontium	50.8	1.46	0.134	0.971	
Titanium	342	1.46	0.134	0.971	
Boron	6.59	0.971	0.436	0.971	
Silicon	824	4.85	1.28	0.971	
Sulfur, Total	185	4.85	0.774	0.971	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-3-A**	**04/20/16 16:00**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:43**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.773	0.154	1.03	
Arsenic	3.37	0.773	0.267	1.03	
Barium	593	0.515	0.159	1.03	
Beryllium	0.233	0.258	0.141	1.03	J
Cadmium	2.38	0.515	0.140	1.03	
Chromium	6.31	0.258	0.147	1.03	
Cobalt	3.33	0.258	0.153	1.03	
Copper	14.0	0.515	0.139	1.03	
Lead	6.05	0.515	0.136	1.03	
Molybdenum	4.19	0.258	0.136	1.03	
Nickel	37.5	0.258	0.149	1.03	
Phosphorus	718	5.15	0.257	1.03	
Selenium	ND	0.773	0.309	1.03	
Silver	ND	0.258	0.0884	1.03	
Thallium	0.570	0.773	0.156	1.03	B,J
Vanadium	30.6	0.258	0.146	1.03	
Zinc	49.2	1.03	0.183	1.03	
Aluminum	1910	2.58	0.369	1.03	
Calcium	9800	5.15	0.392	1.03	
Iron	5670	5.15	0.137	1.03	
Magnesium	1420	5.15	0.174	1.03	B
Manganese	101	0.258	0.143	1.03	
Potassium	1920	25.8	1.81	1.03	B
Sodium	431	25.8	1.87	1.03	
Strontium	99.9	1.55	0.142	1.03	
Titanium	114	1.55	0.142	1.03	
Boron	14.4	1.03	0.463	1.03	
Silicon	236	5.15	1.36	1.03	
Sulfur, Total	1470	5.15	0.822	1.03	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-4-A**	**04/20/16 17:15**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:44**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.714	0.142	0.952	
Arsenic	7.12	0.714	0.247	0.952	
Barium	4280	0.476	0.147	0.952	
Beryllium	0.429	0.238	0.130	0.952	
Cadmium	5.21	0.476	0.129	0.952	
Chromium	16.2	0.238	0.136	0.952	
Cobalt	5.85	0.238	0.141	0.952	
Copper	27.8	0.476	0.128	0.952	
Lead	5.84	0.476	0.125	0.952	
Molybdenum	9.72	0.238	0.126	0.952	
Nickel	57.5	0.238	0.138	0.952	
Phosphorus	1460	4.76	0.238	0.952	
Selenium	ND	0.714	0.285	0.952	
Silver	ND	0.238	0.0816	0.952	
Thallium	0.322	0.714	0.144	0.952	B,J
Vanadium	67.5	0.238	0.135	0.952	
Zinc	128	0.952	0.169	0.952	
Aluminum	4430	2.38	0.341	0.952	
Calcium	11900	4.76	0.362	0.952	
Iron	13000	4.76	0.127	0.952	
Magnesium	2570	4.76	0.161	0.952	B
Manganese	202	0.238	0.132	0.952	
Potassium	2680	23.8	1.67	0.952	B
Sodium	659	23.8	1.73	0.952	
Strontium	141	1.43	0.131	0.952	
Titanium	309	1.43	0.131	0.952	
Boron	10.2	0.952	0.427	0.952	
Silicon	410	4.76	1.25	0.952	
Sulfur, Total	1810	4.76	0.760	0.952	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-5-A**	**04/20/16 17:30**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:45**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.728	0.145	0.971	
Arsenic	11.2	0.728	0.252	0.971	
Barium	2070	0.485	0.150	0.971	
Beryllium	0.576	0.243	0.133	0.971	
Cadmium	6.85	0.485	0.131	0.971	
Chromium	24.6	0.243	0.138	0.971	
Cobalt	7.85	0.243	0.144	0.971	
Copper	42.4	0.485	0.131	0.971	
Lead	30.9	0.485	0.128	0.971	
Molybdenum	13.5	0.243	0.128	0.971	
Nickel	79.0	0.243	0.141	0.971	
Phosphorus	2010	4.85	0.242	0.971	
Selenium	ND	0.728	0.291	0.971	
Silver	ND	0.243	0.0832	0.971	
Thallium	ND	0.728	0.147	0.971	
Vanadium	91.9	0.243	0.137	0.971	
Zinc	153	0.971	0.172	0.971	
Aluminum	5610	2.43	0.347	0.971	
Calcium	22100	4.85	0.369	0.971	
Iron	16800	4.85	0.129	0.971	
Magnesium	4690	4.85	0.164	0.971	B
Manganese	251	0.243	0.135	0.971	
Potassium	3390	24.3	1.70	0.971	B
Sodium	1130	24.3	1.76	0.971	
Strontium	202	1.46	0.134	0.971	
Titanium	325	1.46	0.134	0.971	
Boron	15.2	0.971	0.436	0.971	
Silicon	508	4.85	1.28	0.971	
Sulfur, Total	1660	4.85	0.774	0.971	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-6-A**	**04/20/16 17:35**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:46**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.761	0.151	1.02	
Arsenic	10.7	0.761	0.263	1.02	
Barium	1900	0.508	0.157	1.02	
Beryllium	0.634	0.254	0.139	1.02	
Cadmium	6.48	0.508	0.137	1.02	
Chromium	33.0	0.254	0.144	1.02	
Cobalt	8.83	0.254	0.150	1.02	
Copper	48.9	0.508	0.137	1.02	
Lead	41.1	0.508	0.134	1.02	
Molybdenum	16.6	0.254	0.134	1.02	
Nickel	88.0	0.254	0.147	1.02	
Phosphorus	2060	5.08	0.253	1.02	
Selenium	ND	0.761	0.304	1.02	
Silver	ND	0.254	0.0870	1.02	
Thallium	1.18	0.761	0.154	1.02	B
Vanadium	104	0.254	0.143	1.02	
Zinc	187	1.02	0.180	1.02	
Aluminum	7140	2.54	0.363	1.02	
Calcium	20900	5.08	0.386	1.02	
Iron	19800	5.08	0.135	1.02	
Magnesium	4190	5.08	0.172	1.02	B
Manganese	255	0.254	0.141	1.02	
Potassium	4240	25.4	1.78	1.02	B
Sodium	1260	25.4	1.84	1.02	
Strontium	222	1.52	0.140	1.02	
Titanium	472	1.52	0.140	1.02	
Boron	16.1	1.02	0.456	1.02	
Silicon	638	5.08	1.34	1.02	
Sulfur, Total	1410	5.08	0.810	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-7-A**	**04/20/16 18:00**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:47**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.754	0.150	1.01	
Arsenic	8.29	0.754	0.260	1.01	
Barium	3060	0.503	0.155	1.01	
Beryllium	0.509	0.251	0.138	1.01	
Cadmium	6.18	0.503	0.136	1.01	
Chromium	17.0	0.251	0.143	1.01	
Cobalt	5.96	0.251	0.149	1.01	
Copper	29.4	0.503	0.135	1.01	
Lead	4.43	0.503	0.132	1.01	
Molybdenum	11.8	0.251	0.133	1.01	
Nickel	69.6	0.251	0.145	1.01	
Phosphorus	1520	5.03	0.251	1.01	
Selenium	ND	0.754	0.301	1.01	
Silver	ND	0.251	0.0861	1.01	
Thallium	0.377	0.754	0.152	1.01	B,J
Vanadium	78.1	0.251	0.142	1.01	
Zinc	95.4	1.01	0.178	1.01	
Aluminum	4370	2.51	0.359	1.01	
Calcium	15800	5.03	0.382	1.01	
Iron	13000	5.03	0.134	1.01	
Magnesium	2650	5.03	0.170	1.01	B
Manganese	195	0.251	0.140	1.01	
Potassium	2900	25.1	1.76	1.01	B
Sodium	725	25.1	1.82	1.01	
Strontium	195	1.51	0.138	1.01	
Titanium	257	1.51	0.138	1.01	
Boron	15.6	1.01	0.451	1.01	
Silicon	566	5.03	1.32	1.01	
Sulfur, Total	1980	5.03	0.802	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-8-A**	**04/20/16 18:50**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:48**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.743	0.147	0.990	
Arsenic	12.9	0.743	0.257	0.990	
Barium	254	0.495	0.153	0.990	
Beryllium	0.751	0.248	0.136	0.990	
Cadmium	6.65	0.495	0.134	0.990	
Chromium	23.0	0.248	0.141	0.990	
Cobalt	8.88	0.248	0.147	0.990	
Copper	39.4	0.495	0.133	0.990	
Lead	8.04	0.495	0.130	0.990	
Molybdenum	13.2	0.248	0.131	0.990	
Nickel	78.5	0.248	0.143	0.990	
Phosphorus	1850	4.95	0.247	0.990	
Selenium	ND	0.743	0.297	0.990	
Silver	ND	0.248	0.0849	0.990	
Thallium	0.703	0.743	0.150	0.990	B,J
Vanadium	99.7	0.248	0.140	0.990	
Zinc	156	0.990	0.176	0.990	
Aluminum	7160	2.48	0.354	0.990	
Calcium	31000	4.95	0.377	0.990	
Iron	20200	4.95	0.132	0.990	
Magnesium	3980	4.95	0.168	0.990	B
Manganese	296	0.248	0.138	0.990	
Potassium	4050	24.8	1.74	0.990	B
Sodium	465	24.8	1.80	0.990	
Strontium	139	1.49	0.136	0.990	
Titanium	344	1.49	0.136	0.990	
Boron	14.2	0.990	0.444	0.990	
Silicon	618	4.95	1.30	0.990	
Sulfur, Total	103	4.95	0.790	0.990	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-22570**	**N/A**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:10**	**160421L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.739	0.147	0.985	
Arsenic	ND	0.739	0.255	0.985	
Barium	ND	0.493	0.152	0.985	
Beryllium	ND	0.246	0.135	0.985	
Cadmium	ND	0.493	0.133	0.985	
Chromium	ND	0.246	0.140	0.985	
Cobalt	ND	0.246	0.146	0.985	
Copper	ND	0.493	0.133	0.985	
Lead	ND	0.493	0.130	0.985	
Molybdenum	ND	0.246	0.130	0.985	
Nickel	ND	0.246	0.143	0.985	
Phosphorus	ND	4.93	0.246	0.985	
Selenium	ND	0.739	0.295	0.985	
Silver	ND	0.246	0.0844	0.985	
Thallium	0.271	0.739	0.149	0.985	J
Vanadium	ND	0.246	0.139	0.985	
Zinc	ND	0.985	0.175	0.985	
Aluminum	ND	2.46	0.352	0.985	
Calcium	ND	4.93	0.375	0.985	
Iron	ND	4.93	0.131	0.985	
Magnesium	0.617	4.93	0.167	0.985	J
Manganese	ND	0.246	0.137	0.985	
Potassium	5.11	24.6	1.73	0.985	J
Sodium	ND	24.6	1.79	0.985	
Strontium	ND	1.48	0.136	0.985	
Titanium	ND	1.48	0.136	0.985	
Boron	ND	0.985	0.442	0.985	
Silicon	ND	4.93	1.30	0.985	
Sulfur, Total	ND	4.93	0.786	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-1-A**	**04/20/16 15:00**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:24**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0734	0.0806	0.00568	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-2-A**	**04/20/16 16:10**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:26**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0435	0.0847	0.00597	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-3-A**	**04/20/16 16:00**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:28**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrati[redacted]MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0230	0.0847	0.00597	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-4-A**	**04/20/16 17:15**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:30**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.392	0.0794	0.00559	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-5-A**	**04/20/16 17:30**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:37**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.130	0.0847	0.00597	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-6-A**	**04/20/16 17:35**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:39**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.132	0.0877	0.00618	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-7-A**	**04/20/16 18:00**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:41**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0371	0.0833	0.00587	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-8-A**	**04/20/16 18:50**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:44**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.138	0.0820	0.00578	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-2072**	**N/A**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:13**	**160421L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0820	0.00578	1.00	

[redacted]

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1366
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-1-A**	**04/20/16 15:00**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/21/16 23:48**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.50	0.064	1.00	
Acenaphthylene	ND	0.50	0.060	1.00	
Aniline	ND	0.50	0.060	1.00	
Anthracene	ND	0.50	0.063	1.00	
Azobenzene	ND	0.50	0.054	1.00	
Benzidine	ND	10	0.83	1.00	
Benzo (a) Anthracene	ND	0.50	0.057	1.00	
Benzo (a) Pyrene	ND	0.50	0.055	1.00	
Benzo (b) Fluoranthene	ND	0.50	0.064	1.00	
Benzo (g,h,i) Perylene	ND	0.50	0.056	1.00	
Benzo (k) Fluoranthene	ND	0.50	0.065	1.00	
Benzoic Acid	ND	2.5	0.50	1.00	
Benzyl Alcohol	ND	0.50	0.066	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.057	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	0.41	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.058	1.00	
Bis(2-Ethylhexyl) Phthalate	0.22	0.50	0.054	1.00	J
4-Bromophenyl-Phenyl Ether	ND	0.50	0.062	1.00	
Butyl Benzyl Phthalate	ND	0.50	0.054	1.00	
4-Chloro-3-Methylphenol	ND	0.50	0.067	1.00	
4-Chloroaniline	ND	0.50	0.065	1.00	
2-Chloronaphthalene	ND	0.50	0.059	1.00	
2-Chlorophenol	ND	0.50	0.067	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	0.065	1.00	
Chrysene	ND	0.50	0.065	1.00	
Di-n-Butyl Phthalate	ND	0.50	0.060	1.00	
Di-n-Octyl Phthalate	ND	0.50	0.10	1.00	
Dibenz (a,h) Anthracene	ND	0.50	0.047	1.00	
Dibenzofuran	ND	0.50	0.061	1.00	
1,2-Dichlorobenzene	ND	0.50	0.064	1.00	
1,3-Dichlorobenzene	ND	0.50	0.074	1.00	
1,4-Dichlorobenzene	ND	0.50	0.076	1.00	
3,3'-Dichlorobenzidine	ND	10	0.37	1.00	
2,4-Dichlorophenol	ND	0.50	0.058	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.50	0.058	1.00	
Dimethyl Phthalate	0.16	0.50	0.11	1.00	J
2,4-Dimethylphenol	ND	0.50	0.27	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	0.63	1.00	
2,4-Dinitrophenol	ND	2.5	0.34	1.00	
2,4-Dinitrotoluene	ND	0.50	0.067	1.00	
2,6-Dichlorophenol	ND	0.50	0.060	1.00	
2,6-Dinitrotoluene	ND	0.50	0.073	1.00	
Fluoranthene	ND	0.50	0.063	1.00	
Fluorene	ND	0.50	0.064	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	0.064	1.00	
Hexachlorobenzene	ND	0.50	0.067	1.00	
Hexachlorocyclopentadiene	ND	2.5	0.51	1.00	
Hexachloroethane	ND	0.50	0.079	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.054	1.00	
Isophorone	ND	0.50	0.057	1.00	
2-Methylnaphthalene	ND	0.50	0.061	1.00	
1-Methylnaphthalene	ND	0.50	0.057	1.00	
2-Methylphenol	ND	0.50	0.087	1.00	
3/4-Methylphenol	ND	0.50	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	0.084	1.00	
N-Nitrosodimethylamine	ND	0.50	0.047	1.00	
N-Nitrosodiphenylamine	ND	0.50	0.14	1.00	
Naphthalene	ND	0.50	0.059	1.00	
4-Nitroaniline	ND	0.50	0.066	1.00	
3-Nitroaniline	ND	0.50	0.070	1.00	
2-Nitroaniline	ND	0.50	0.052	1.00	
Nitrobenzene	ND	2.5	0.33	1.00	
4-Nitrophenol	ND	0.50	0.055	1.00	
2-Nitrophenol	ND	0.50	0.068	1.00	
Pentachlorophenol	ND	2.5	0.39	1.00	
Phenanthrene	ND	0.50	0.069	1.00	
Phenol	ND	0.50	0.048	1.00	
Pyrene	ND	0.50	0.077	1.00	
Pyridine	ND	0.50	0.055	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.060	1.00	
2,4,6-Trichlorophenol	ND	0.50	0.077	1.00	
2,4,5-Trichlorophenol	ND	0.50	0.064	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 3 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	63	27-120	
2-Fluorophenol	75	25-120	
Nitrobenzene-d5	72	33-123	
p-Terphenyl-d14	87	27-159	
Phenol-d6	79	26-122	
2,4,6-Tribromophenol	79	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-2-A**	**04/20/16 16:10**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 00:06**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.50	0.064	1.00	
Acenaphthylene	ND	0.50	0.060	1.00	
Aniline	ND	0.50	0.060	1.00	
Anthracene	ND	0.50	0.063	1.00	
Azobenzene	ND	0.50	0.054	1.00	
Benzidine	ND	10	0.83	1.00	
Benzo (a) Anthracene	ND	0.50	0.057	1.00	
Benzo (a) Pyrene	ND	0.50	0.055	1.00	
Benzo (b) Fluoranthene	ND	0.50	0.064	1.00	
Benzo (g,h,i) Perylene	ND	0.50	0.056	1.00	
Benzo (k) Fluoranthene	ND	0.50	0.065	1.00	
Benzoic Acid	ND	2.5	0.50	1.00	
Benzyl Alcohol	ND	0.50	0.066	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.057	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	0.41	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.058	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.054	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	0.062	1.00	
Butyl Benzyl Phthalate	ND	0.50	0.054	1.00	
4-Chloro-3-Methylphenol	ND	0.50	0.067	1.00	
4-Chloroaniline	ND	0.50	0.065	1.00	
2-Chloronaphthalene	ND	0.50	0.059	1.00	
2-Chlorophenol	ND	0.50	0.067	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	0.065	1.00	
Chrysene	ND	0.50	0.065	1.00	
Di-n-Butyl Phthalate	ND	0.50	0.060	1.00	
Di-n-Octyl Phthalate	ND	0.50	0.10	1.00	
Dibenz (a,h) Anthracene	ND	0.50	0.047	1.00	
Dibenzofuran	ND	0.50	0.061	1.00	
1,2-Dichlorobenzene	ND	0.50	0.064	1.00	
1,3-Dichlorobenzene	ND	0.50	0.074	1.00	
1,4-Dichlorobenzene	ND	0.50	0.076	1.00	
3,3'-Dichlorobenzidine	ND	10	0.37	1.00	
2,4-Dichlorophenol	ND	0.50	0.058	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.50	0.058	1.00	
Dimethyl Phthalate	ND	0.50	0.11	1.00	
2,4-Dimethylphenol	ND	0.50	0.27	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	0.63	1.00	
2,4-Dinitrophenol	ND	2.5	0.34	1.00	
2,4-Dinitrotoluene	ND	0.50	0.067	1.00	
2,6-Dichlorophenol	ND	0.50	0.060	1.00	
2,6-Dinitrotoluene	ND	0.50	0.073	1.00	
Fluoranthene	ND	0.50	0.063	1.00	
Fluorene	ND	0.50	0.064	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	0.064	1.00	
Hexachlorobenzene	ND	0.50	0.067	1.00	
Hexachlorocyclopentadiene	ND	2.5	0.51	1.00	
Hexachloroethane	ND	0.50	0.079	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.054	1.00	
Isophorone	ND	0.50	0.057	1.00	
2-Methylnaphthalene	ND	0.50	0.061	1.00	
1-Methylnaphthalene	ND	0.50	0.057	1.00	
2-Methylphenol	ND	0.50	0.087	1.00	
3/4-Methylphenol	ND	0.50	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	0.084	1.00	
N-Nitrosodimethylamine	ND	0.50	0.047	1.00	
N-Nitrosodiphenylamine	ND	0.50	0.14	1.00	
Naphthalene	ND	0.50	0.059	1.00	
4-Nitroaniline	ND	0.50	0.066	1.00	
3-Nitroaniline	ND	0.50	0.070	1.00	
2-Nitroaniline	ND	0.50	0.052	1.00	
Nitrobenzene	ND	2.5	0.33	1.00	
4-Nitrophenol	ND	0.50	0.055	1.00	
2-Nitrophenol	ND	0.50	0.068	1.00	
Pentachlorophenol	ND	2.5	0.39	1.00	
Phenanthrene	ND	0.50	0.069	1.00	
Phenol	ND	0.50	0.048	1.00	
Pyrene	ND	0.50	0.077	1.00	
Pyridine	ND	0.50	0.055	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.060	1.00	
2,4,6-Trichlorophenol	ND	0.50	0.077	1.00	
2,4,5-Trichlorophenol	ND	0.50	0.064	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 6 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	33	27-120	
2-Fluorophenol	39	25-120	
Nitrobenzene-d5	38	33-123	
p-Terphenyl-d14	41	27-159	
Phenol-d6	42	26-122	
2,4,6-Tribromophenol	40	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1366
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	16-04-1366-3-A	04/20/16 16:00	Solid	GC/MS CCC	04/21/16	04/22/16 01:02	160421L10

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	91	12	10.0	
Acenaphthylene	ND	91	11	10.0	
Aniline	ND	91	11	10.0	
Anthracene	ND	91	11	10.0	
Azobenzene	ND	91	9.8	10.0	
Benzidine	ND	1800	150	10.0	
Benzo (a) Anthracene	ND	91	10	10.0	
Benzo (a) Pyrene	ND	91	9.9	10.0	
Benzo (b) Fluoranthene	ND	91	12	10.0	
Benzo (g,h,i) Perylene	ND	91	10	10.0	
Benzo (k) Fluoranthene	ND	91	12	10.0	
Benzoic Acid	ND	450	90	10.0	
Benzyl Alcohol	ND	91	12	10.0	
Bis(2-Chloroethoxy) Methane	ND	91	10	10.0	
Bis(2-Chloroethyl) Ether	ND	450	74	10.0	
Bis(2-Chloroisopropyl) Ether	ND	91	10	10.0	
Bis(2-Ethylhexyl) Phthalate	ND	91	9.7	10.0	
4-Bromophenyl-Phenyl Ether	ND	91	11	10.0	
Butyl Benzyl Phthalate	ND	91	9.8	10.0	
4-Chloro-3-Methylphenol	ND	91	12	10.0	
4-Chloroaniline	ND	91	12	10.0	
2-Chloronaphthalene	ND	91	11	10.0	
2-Chlorophenol	ND	91	12	10.0	
4-Chlorophenyl-Phenyl Ether	ND	91	12	10.0	
Chrysene	ND	91	12	10.0	
Di-n-Butyl Phthalate	ND	91	11	10.0	
Di-n-Octyl Phthalate	ND	91	18	10.0	
Dibenz (a,h) Anthracene	ND	91	8.4	10.0	
Dibenzofuran	ND	91	11	10.0	
1,2-Dichlorobenzene	ND	91	12	10.0	
1,3-Dichlorobenzene	ND	91	13	10.0	
1,4-Dichlorobenzene	ND	91	14	10.0	
3,3'-Dichlorobenzidine	ND	1800	66	10.0	
2,4-Dichlorophenol	ND	91	11	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	91	11	10.0	
Dimethyl Phthalate	ND	91	21	10.0	
2,4-Dimethylphenol	ND	91	48	10.0	
4,6-Dinitro-2-Methylphenol	ND	450	110	10.0	
2,4-Dinitrophenol	ND	450	62	10.0	
2,4-Dinitrotoluene	ND	91	12	10.0	
2,6-Dichlorophenol	ND	91	11	10.0	
2,6-Dinitrotoluene	ND	91	13	10.0	
Fluoranthene	ND	91	11	10.0	
Fluorene	ND	91	12	10.0	
Hexachloro-1,3-Butadiene	ND	91	11	10.0	
Hexachlorobenzene	ND	91	12	10.0	
Hexachlorocyclopentadiene	ND	450	92	10.0	
Hexachloroethane	ND	91	14	10.0	
Indeno (1,2,3-c,d) Pyrene	ND	91	9.7	10.0	
Isophorone	ND	91	10	10.0	
2-Methylnaphthalene	ND	91	11	10.0	
1-Methylnaphthalene	ND	91	10	10.0	
2-Methylphenol	ND	91	16	10.0	
3/4-Methylphenol	ND	91	30	10.0	
N-Nitroso-di-n-propylamine	ND	91	15	10.0	
N-Nitrosodimethylamine	ND	91	8.6	10.0	
N-Nitrosodiphenylamine	ND	91	25	10.0	
Naphthalene	ND	91	11	10.0	
4-Nitroaniline	ND	91	12	10.0	
3-Nitroaniline	ND	91	13	10.0	
2-Nitroaniline	ND	91	9.4	10.0	
Nitrobenzene	ND	450	59	10.0	
4-Nitrophenol	ND	91	9.9	10.0	
2-Nitrophenol	ND	91	12	10.0	
Pentachlorophenol	ND	450	70	10.0	
Phenanthrene	65	91	12	10.0	J
Phenol	ND	91	8.7	10.0	
Pyrene	ND	91	14	10.0	
Pyridine	ND	91	10	10.0	
1,2,4-Trichlorobenzene	ND	91	11	10.0	
2,4,6-Trichlorophenol	ND	91	14	10.0	
2,4,5-Trichlorophenol	ND	91	12	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 9 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	59	27-120	
2-Fluorophenol	55	25-120	
Nitrobenzene-d5	59	33-123	
p-Terphenyl-d14	66	27-159	
Phenol-d6	63	26-122	
2,4,6-Tribromophenol	72	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 10 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-4-A**	**04/20/16 17:15**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 01:20**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	1.3	10.0	
Acenaphthylene	ND	10	1.2	10.0	
Aniline	ND	10	1.2	10.0	
Anthracene	ND	10	1.3	10.0	
Azobenzene	ND	10	1.1	10.0	
Benzidine	ND	200	16	10.0	
Benzo (a) Anthracene	ND	10	1.1	10.0	
Benzo (a) Pyrene	ND	10	1.1	10.0	
Benzo (b) Fluoranthene	ND	10	1.3	10.0	
Benzo (g,h,i) Perylene	ND	10	1.1	10.0	
Benzo (k) Fluoranthene	ND	10	1.3	10.0	
Benzoic Acid	ND	50	9.9	10.0	
Benzyl Alcohol	ND	10	1.3	10.0	
Bis(2-Chloroethoxy) Methane	ND	10	1.1	10.0	
Bis(2-Chloroethyl) Ether	ND	50	8.1	10.0	
Bis(2-Chloroisopropyl) Ether	ND	10	1.1	10.0	
Bis(2-Ethylhexyl) Phthalate	ND	10	1.1	10.0	
4-Bromophenyl-Phenyl Ether	ND	10	1.2	10.0	
Butyl Benzyl Phthalate	ND	10	1.1	10.0	
4-Chloro-3-Methylphenol	ND	10	1.3	10.0	
4-Chloroaniline	ND	10	1.3	10.0	
2-Chloronaphthalene	ND	10	1.2	10.0	
2-Chlorophenol	ND	10	1.3	10.0	
4-Chlorophenyl-Phenyl Ether	ND	10	1.3	10.0	
Chrysene	ND	10	1.3	10.0	
Di-n-Butyl Phthalate	ND	10	1.2	10.0	
Di-n-Octyl Phthalate	ND	10	2.0	10.0	
Dibenz (a,h) Anthracene	ND	10	0.92	10.0	
Dibenzofuran	2.8	10	1.2	10.0	J
1,2-Dichlorobenzene	ND	10	1.3	10.0	
1,3-Dichlorobenzene	ND	10	1.5	10.0	
1,4-Dichlorobenzene	ND	10	1.5	10.0	
3,3'-Dichlorobenzidine	ND	200	7.2	10.0	
2,4-Dichlorophenol	ND	10	1.2	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	1.2	10.0	
Dimethyl Phthalate	ND	10	2.3	10.0	
2,4-Dimethylphenol	ND	10	5.3	10.0	
4,6-Dinitro-2-Methylphenol	ND	50	13	10.0	
2,4-Dinitrophenol	ND	50	6.7	10.0	
2,4-Dinitrotoluene	ND	10	1.3	10.0	
2,6-Dichlorophenol	ND	10	1.2	10.0	
2,6-Dinitrotoluene	ND	10	1.4	10.0	
Fluoranthene	ND	10	1.2	10.0	
Fluorene	15	10	1.3	10.0	
Hexachloro-1,3-Butadiene	ND	10	1.3	10.0	
Hexachlorobenzene	ND	10	1.3	10.0	
Hexachlorocyclopentadiene	ND	50	10	10.0	
Hexachloroethane	ND	10	1.6	10.0	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.1	10.0	
Isophorone	ND	10	1.1	10.0	
2-Methylnaphthalene	31	10	1.2	10.0	
1-Methylnaphthalene	15	10	1.1	10.0	
2-Methylphenol	ND	10	1.7	10.0	
3/4-Methylphenol	ND	10	3.2	10.0	
N-Nitroso-di-n-propylamine	ND	10	1.7	10.0	
N-Nitrosodimethylamine	ND	10	0.94	10.0	
N-Nitrosodiphenylamine	ND	10	2.7	10.0	
Naphthalene	3.5	10	1.2	10.0	J
4-Nitroaniline	ND	10	1.3	10.0	
3-Nitroaniline	ND	10	1.4	10.0	
2-Nitroaniline	ND	10	1.0	10.0	
Nitrobenzene	ND	50	6.5	10.0	
4-Nitrophenol	ND	10	1.1	10.0	
2-Nitrophenol	ND	10	1.3	10.0	
Pentachlorophenol	ND	50	7.7	10.0	
Phenanthrene	45	10	1.4	10.0	
Phenol	ND	10	0.95	10.0	
Pyrene	ND	10	1.5	10.0	
Pyridine	ND	10	1.1	10.0	
1,2,4-Trichlorobenzene	ND	10	1.2	10.0	
2,4,6-Trichlorophenol	ND	10	1.5	10.0	
2,4,5-Trichlorophenol	ND	10	1.3	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 12 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	61	27-120	
2-Fluorophenol	49	25-120	
Nitrobenzene-d5	56	33-123	
p-Terphenyl-d14	66	27-159	
Phenol-d6	60	26-122	
2,4,6-Tribromophenol	71	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 13 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-5-A**	**04/20/16 17:30**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 01:38**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	1.3	10.0	
Acenaphthylene	ND	10	1.2	10.0	
Aniline	ND	10	1.2	10.0	
Anthracene	ND	10	1.3	10.0	
Azobenzene	ND	10	1.1	10.0	
Benzidine	ND	200	17	10.0	
Benzo (a) Anthracene	ND	10	1.1	10.0	
Benzo (a) Pyrene	ND	10	1.1	10.0	
Benzo (b) Fluoranthene	ND	10	1.3	10.0	
Benzo (g,h,i) Perylene	ND	10	1.1	10.0	
Benzo (k) Fluoranthene	ND	10	1.3	10.0	
Benzoic Acid	ND	50	9.9	10.0	
Benzyl Alcohol	ND	10	1.3	10.0	
Bis(2-Chloroethoxy) Methane	ND	10	1.1	10.0	
Bis(2-Chloroethyl) Ether	ND	50	8.1	10.0	
Bis(2-Chloroisopropyl) Ether	ND	10	1.1	10.0	
Bis(2-Ethylhexyl) Phthalate	ND	10	1.1	10.0	
4-Bromophenyl-Phenyl Ether	ND	10	1.2	10.0	
Butyl Benzyl Phthalate	ND	10	1.1	10.0	
4-Chloro-3-Methylphenol	ND	10	1.3	10.0	
4-Chloroaniline	ND	10	1.3	10.0	
2-Chloronaphthalene	ND	10	1.2	10.0	
2-Chlorophenol	ND	10	1.3	10.0	
4-Chlorophenyl-Phenyl Ether	ND	10	1.3	10.0	
Chrysene	ND	10	1.3	10.0	
Di-n-Butyl Phthalate	ND	10	1.2	10.0	
Di-n-Octyl Phthalate	ND	10	2.0	10.0	
Dibenz (a,h) Anthracene	ND	10	0.93	10.0	
Dibenzofuran	6.9	10	1.2	10.0	J
1,2-Dichlorobenzene	ND	10	1.3	10.0	
1,3-Dichlorobenzene	ND	10	1.5	10.0	
1,4-Dichlorobenzene	ND	10	1.5	10.0	
3,3'-Dichlorobenzidine	ND	200	7.3	10.0	
2,4-Dichlorophenol	ND	10	1.2	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	1.2	10.0	
Dimethyl Phthalate	ND	10	2.3	10.0	
2,4-Dimethylphenol	ND	10	5.3	10.0	
4,6-Dinitro-2-Methylphenol	ND	50	13	10.0	
2,4-Dinitrophenol	ND	50	6.8	10.0	
2,4-Dinitrotoluene	ND	10	1.3	10.0	
2,6-Dichlorophenol	ND	10	1.2	10.0	
2,6-Dinitrotoluene	ND	10	1.5	10.0	
Fluoranthene	ND	10	1.2	10.0	
Fluorene	39	10	1.3	10.0	
Hexachloro-1,3-Butadiene	ND	10	1.3	10.0	
Hexachlorobenzene	ND	10	1.3	10.0	
Hexachlorocyclopentadiene	ND	50	10	10.0	
Hexachloroethane	ND	10	1.6	10.0	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.1	10.0	
Isophorone	ND	10	1.1	10.0	
2-Methylnaphthalene	110	10	1.2	10.0	
1-Methylnaphthalene	49	10	1.1	10.0	
2-Methylphenol	ND	10	1.7	10.0	
3/4-Methylphenol	ND	10	3.3	10.0	
N-Nitroso-di-n-propylamine	ND	10	1.7	10.0	
N-Nitrosodimethylamine	ND	10	0.94	10.0	
N-Nitrosodiphenylamine	ND	10	2.7	10.0	
Naphthalene	10	10	1.2	10.0	
4-Nitroaniline	ND	10	1.3	10.0	
3-Nitroaniline	ND	10	1.4	10.0	
2-Nitroaniline	ND	10	1.0	10.0	
Nitrobenzene	ND	50	6.5	10.0	
4-Nitrophenol	ND	10	1.1	10.0	
2-Nitrophenol	ND	10	1.3	10.0	
Pentachlorophenol	ND	50	7.7	10.0	
Phenanthrene	89	10	1.4	10.0	
Phenol	ND	10	0.96	10.0	
Pyrene	ND	10	1.5	10.0	
Pyridine	ND	10	1.1	10.0	
1,2,4-Trichlorobenzene	ND	10	1.2	10.0	
2,4,6-Trichlorophenol	ND	10	1.5	10.0	
2,4,5-Trichlorophenol	ND	10	1.3	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 15 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	57	27-120	
2-Fluorophenol	47	25-120	
Nitrobenzene-d5	61	33-123	
p-Terphenyl-d14	67	27-159	
Phenol-d6	55	26-122	
2,4,6-Tribromophenol	65	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 16 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-6-A**	**04/20/16 17:35**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 01:57**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	1.3	10.0	
Acenaphthylene	ND	10	1.2	10.0	
Aniline	ND	10	1.2	10.0	
Anthracene	ND	10	1.3	10.0	
Azobenzene	ND	10	1.1	10.0	
Benzidine	ND	200	17	10.0	
Benzo (a) Anthracene	ND	10	1.1	10.0	
Benzo (a) Pyrene	ND	10	1.1	10.0	
Benzo (b) Fluoranthene	ND	10	1.3	10.0	
Benzo (g,h,i) Perylene	ND	10	1.1	10.0	
Benzo (k) Fluoranthene	ND	10	1.3	10.0	
Benzoic Acid	ND	50	9.9	10.0	
Benzyl Alcohol	ND	10	1.3	10.0	
Bis(2-Chloroethoxy) Methane	ND	10	1.1	10.0	
Bis(2-Chloroethyl) Ether	ND	50	8.1	10.0	
Bis(2-Chloroisopropyl) Ether	ND	10	1.1	10.0	
Bis(2-Ethylhexyl) Phthalate	ND	10	1.1	10.0	
4-Bromophenyl-Phenyl Ether	ND	10	1.2	10.0	
Butyl Benzyl Phthalate	ND	10	1.1	10.0	
4-Chloro-3-Methylphenol	ND	10	1.3	10.0	
4-Chloroaniline	ND	10	1.3	10.0	
2-Chloronaphthalene	ND	10	1.2	10.0	
2-Chlorophenol	ND	10	1.3	10.0	
4-Chlorophenyl-Phenyl Ether	ND	10	1.3	10.0	
Chrysene	ND	10	1.3	10.0	
Di-n-Butyl Phthalate	ND	10	1.2	10.0	
Di-n-Octyl Phthalate	ND	10	2.0	10.0	
Dibenz (a,h) Anthracene	ND	10	0.93	10.0	
Dibenzofuran	3.1	10	1.2	10.0	J
1,2-Dichlorobenzene	ND	10	1.3	10.0	
1,3-Dichlorobenzene	ND	10	1.5	10.0	
1,4-Dichlorobenzene	ND	10	1.5	10.0	
3,3'-Dichlorobenzidine	ND	200	7.3	10.0	
2,4-Dichlorophenol	ND	10	1.2	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	1.2	10.0	
Dimethyl Phthalate	ND	10	2.3	10.0	
2,4-Dimethylphenol	ND	10	5.3	10.0	
4,6-Dinitro-2-Methylphenol	ND	50	13	10.0	
2,4-Dinitrophenol	ND	50	6.8	10.0	
2,4-Dinitrotoluene	ND	10	1.3	10.0	
2,6-Dichlorophenol	ND	10	1.2	10.0	
2,6-Dinitrotoluene	ND	10	1.5	10.0	
Fluoranthene	ND	10	1.2	10.0	
Fluorene	16	10	1.3	10.0	
Hexachloro-1,3-Butadiene	ND	10	1.3	10.0	
Hexachlorobenzene	ND	10	1.3	10.0	
Hexachlorocyclopentadiene	ND	50	10	10.0	
Hexachloroethane	ND	10	1.6	10.0	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.1	10.0	
Isophorone	ND	10	1.1	10.0	
2-Methylnaphthalene	28	10	1.2	10.0	
1-Methylnaphthalene	13	10	1.1	10.0	
2-Methylphenol	ND	10	1.7	10.0	
3/4-Methylphenol	ND	10	3.3	10.0	
N-Nitroso-di-n-propylamine	ND	10	1.7	10.0	
N-Nitrosodimethylamine	ND	10	0.94	10.0	
N-Nitrosodiphenylamine	ND	10	2.7	10.0	
Naphthalene	1.9	10	1.2	10.0	J
4-Nitroaniline	ND	10	1.3	10.0	
3-Nitroaniline	ND	10	1.4	10.0	
2-Nitroaniline	ND	10	1.0	10.0	
Nitrobenzene	ND	50	6.5	10.0	
4-Nitrophenol	ND	10	1.1	10.0	
2-Nitrophenol	ND	10	1.3	10.0	
Pentachlorophenol	ND	50	7.7	10.0	
Phenanthrene	51	10	1.4	10.0	
Phenol	ND	10	0.96	10.0	
Pyrene	ND	10	1.5	10.0	
Pyridine	ND	10	1.1	10.0	
1,2,4-Trichlorobenzene	ND	10	1.2	10.0	
2,4,6-Trichlorophenol	ND	10	1.5	10.0	
2,4,5-Trichlorophenol	ND	10	1.3	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 18 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	56	27-120	
2-Fluorophenol	45	25-120	
Nitrobenzene-d5	54	33-123	
p-Terphenyl-d14	64	27-159	
Phenol-d6	53	26-122	
2,4,6-Tribromophenol	62	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 19 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-7-A**	**04/20/16 18:00**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 00:25**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.1	1.2	1.00	
Acenaphthylene	ND	9.1	1.1	1.00	
Aniline	ND	9.1	1.1	1.00	
Anthracene	ND	9.1	1.1	1.00	
Azobenzene	ND	9.1	0.98	1.00	
Benzidine	ND	180	15	1.00	
Benzo (a) Anthracene	ND	9.1	1.0	1.00	
Benzo (a) Pyrene	ND	9.1	0.99	1.00	
Benzo (b) Fluoranthene	ND	9.1	1.2	1.00	
Benzo (g,h,i) Perylene	ND	9.1	1.0	1.00	
Benzo (k) Fluoranthene	ND	9.1	1.2	1.00	
Benzoic Acid	ND	45	9.0	1.00	
Benzyl Alcohol	ND	9.1	1.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.1	1.0	1.00	
Bis(2-Chloroethyl) Ether	ND	45	7.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.1	1.0	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.1	0.97	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.1	1.1	1.00	
Butyl Benzyl Phthalate	ND	9.1	0.98	1.00	
4-Chloro-3-Methylphenol	ND	9.1	1.2	1.00	
4-Chloroaniline	ND	9.1	1.2	1.00	
2-Chloronaphthalene	ND	9.1	1.1	1.00	
2-Chlorophenol	ND	9.1	1.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.1	1.2	1.00	
Chrysene	2.0	9.1	1.2	1.00	J
Di-n-Butyl Phthalate	ND	9.1	1.1	1.00	
Di-n-Octyl Phthalate	ND	9.1	1.8	1.00	
Dibenz (a,h) Anthracene	ND	9.1	0.84	1.00	
Dibenzofuran	2.1	9.1	1.1	1.00	J
1,2-Dichlorobenzene	ND	9.1	1.2	1.00	
1,3-Dichlorobenzene	ND	9.1	1.3	1.00	
1,4-Dichlorobenzene	ND	9.1	1.4	1.00	
3,3'-Dichlorobenzidine	ND	180	6.6	1.00	
2,4-Dichlorophenol	ND	9.1	1.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.1	1.1	1.00	
Dimethyl Phthalate	ND	9.1	2.1	1.00	
2,4-Dimethylphenol	ND	9.1	4.8	1.00	
4,6-Dinitro-2-Methylphenol	ND	45	11	1.00	
2,4-Dinitrophenol	ND	45	6.2	1.00	
2,4-Dinitrotoluene	ND	9.1	1.2	1.00	
2,6-Dichlorophenol	ND	9.1	1.1	1.00	
2,6-Dinitrotoluene	ND	9.1	1.3	1.00	
Fluoranthene	ND	9.1	1.1	1.00	
Fluorene	14	9.1	1.2	1.00	
Hexachloro-1,3-Butadiene	ND	9.1	1.1	1.00	
Hexachlorobenzene	ND	9.1	1.2	1.00	
Hexachlorocyclopentadiene	ND	45	9.2	1.00	
Hexachloroethane	ND	9.1	1.4	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.1	0.97	1.00	
Isophorone	ND	9.1	1.0	1.00	
2-Methylnaphthalene	5.4	9.1	1.1	1.00	J
1-Methylnaphthalene	3.8	9.1	1.0	1.00	J
2-Methylphenol	ND	9.1	1.6	1.00	
3/4-Methylphenol	ND	9.1	3.0	1.00	
N-Nitroso-di-n-propylamine	ND	9.1	1.5	1.00	
N-Nitrosodimethylamine	ND	9.1	0.86	1.00	
N-Nitrosodiphenylamine	ND	9.1	2.5	1.00	
Naphthalene	ND	9.1	1.1	1.00	
4-Nitroaniline	ND	9.1	1.2	1.00	
3-Nitroaniline	ND	9.1	1.3	1.00	
2-Nitroaniline	ND	9.1	0.94	1.00	
Nitrobenzene	ND	45	5.9	1.00	
4-Nitrophenol	ND	9.1	0.99	1.00	
2-Nitrophenol	ND	9.1	1.2	1.00	
Pentachlorophenol	ND	45	7.0	1.00	
Phenanthrene	98	9.1	1.2	1.00	
Phenol	ND	9.1	0.87	1.00	
Pyrene	ND	9.1	1.4	1.00	
Pyridine	ND	9.1	1.0	1.00	
1,2,4-Trichlorobenzene	ND	9.1	1.1	1.00	
2,4,6-Trichlorophenol	ND	9.1	1.4	1.00	
2,4,5-Trichlorophenol	ND	9.1	1.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 21 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	27-120	
2-Fluorophenol	68	25-120	
Nitrobenzene-d5	73	33-123	
p-Terphenyl-d14	84	27-159	
Phenol-d6	73	26-122	
2,4,6-Tribromophenol	83	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 22 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-8-A**	**04/20/16 18:50**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 00:43**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.50	0.063	1.00	
Acenaphthylene	ND	0.50	0.060	1.00	
Aniline	ND	0.50	0.060	1.00	
Anthracene	ND	0.50	0.063	1.00	
Azobenzene	ND	0.50	0.054	1.00	
Benzidine	ND	10	0.83	1.00	
Benzo (a) Anthracene	ND	0.50	0.057	1.00	
Benzo (a) Pyrene	ND	0.50	0.054	1.00	
Benzo (b) Fluoranthene	ND	0.50	0.064	1.00	
Benzo (g,h,i) Perylene	ND	0.50	0.055	1.00	
Benzo (k) Fluoranthene	ND	0.50	0.065	1.00	
Benzoic Acid	ND	2.5	0.50	1.00	
Benzyl Alcohol	ND	0.50	0.066	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.056	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	0.41	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.057	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.053	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	0.061	1.00	
Butyl Benzyl Phthalate	ND	0.50	0.054	1.00	
4-Chloro-3-Methylphenol	ND	0.50	0.066	1.00	
4-Chloroaniline	ND	0.50	0.065	1.00	
2-Chloronaphthalene	ND	0.50	0.059	1.00	
2-Chlorophenol	ND	0.50	0.067	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	0.064	1.00	
Chrysene	ND	0.50	0.064	1.00	
Di-n-Butyl Phthalate	ND	0.50	0.060	1.00	
Di-n-Octyl Phthalate	ND	0.50	0.10	1.00	
Dibenz (a,h) Anthracene	ND	0.50	0.046	1.00	
Dibenzofuran	ND	0.50	0.060	1.00	
1,2-Dichlorobenzene	ND	0.50	0.064	1.00	
1,3-Dichlorobenzene	ND	0.50	0.073	1.00	
1,4-Dichlorobenzene	ND	0.50	0.075	1.00	
3,3'-Dichlorobenzidine	ND	10	0.36	1.00	
2,4-Dichlorophenol	ND	0.50	0.058	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.50	0.058	1.00	
Dimethyl Phthalate	0.13	0.50	0.11	1.00	J
2,4-Dimethylphenol	ND	0.50	0.27	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	0.63	1.00	
2,4-Dinitrophenol	ND	2.5	0.34	1.00	
2,4-Dinitrotoluene	ND	0.50	0.067	1.00	
2,6-Dichlorophenol	ND	0.50	0.059	1.00	
2,6-Dinitrotoluene	ND	0.50	0.073	1.00	
Fluoranthene	ND	0.50	0.062	1.00	
Fluorene	ND	0.50	0.063	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	0.063	1.00	
Hexachlorobenzene	ND	0.50	0.067	1.00	
Hexachlorocyclopentadiene	ND	2.5	0.50	1.00	
Hexachloroethane	ND	0.50	0.078	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.053	1.00	
Isophorone	ND	0.50	0.057	1.00	
2-Methylnaphthalene	ND	0.50	0.060	1.00	
1-Methylnaphthalene	ND	0.50	0.056	1.00	
2-Methylphenol	ND	0.50	0.087	1.00	
3/4-Methylphenol	ND	0.50	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	0.084	1.00	
N-Nitrosodimethylamine	ND	0.50	0.047	1.00	
N-Nitrosodiphenylamine	ND	0.50	0.14	1.00	
Naphthalene	ND	0.50	0.059	1.00	
4-Nitroaniline	ND	0.50	0.065	1.00	
3-Nitroaniline	ND	0.50	0.070	1.00	
2-Nitroaniline	ND	0.50	0.052	1.00	
Nitrobenzene	ND	2.5	0.32	1.00	
4-Nitrophenol	ND	0.50	0.054	1.00	
2-Nitrophenol	ND	0.50	0.067	1.00	
Pentachlorophenol	ND	2.5	0.39	1.00	
Phenanthrene	ND	0.50	0.069	1.00	
Phenol	ND	0.50	0.048	1.00	
Pyrene	ND	0.50	0.077	1.00	
Pyridine	ND	0.50	0.055	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.059	1.00	
2,4,6-Trichlorophenol	ND	0.50	0.077	1.00	
2,4,5-Trichlorophenol	ND	0.50	0.064	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 24 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	68	27-120	
2-Fluorophenol	72	25-120	
Nitrobenzene-d5	71	33-123	
p-Terphenyl-d14	83	27-159	
Phenol-d6	77	26-122	
2,4,6-Tribromophenol	78	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: Aliso Canyon / 603287.048			Page 25 of 27

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3586**	**N/A**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/21/16 23:30**	**160421L10**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.50	0.063	1.00	
Acenaphthylene	ND	0.50	0.060	1.00	
Aniline	ND	0.50	0.060	1.00	
Anthracene	ND	0.50	0.063	1.00	
Azobenzene	ND	0.50	0.054	1.00	
Benzidine	ND	10	0.83	1.00	
Benzo (a) Anthracene	ND	0.50	0.057	1.00	
Benzo (a) Pyrene	ND	0.50	0.054	1.00	
Benzo (b) Fluoranthene	ND	0.50	0.064	1.00	
Benzo (g,h,i) Perylene	ND	0.50	0.055	1.00	
Benzo (k) Fluoranthene	ND	0.50	0.065	1.00	
Benzoic Acid	ND	2.5	0.50	1.00	
Benzyl Alcohol	ND	0.50	0.066	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.056	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	0.41	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.057	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.053	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	0.061	1.00	
Butyl Benzyl Phthalate	ND	0.50	0.054	1.00	
4-Chloro-3-Methylphenol	ND	0.50	0.066	1.00	
4-Chloroaniline	ND	0.50	0.065	1.00	
2-Chloronaphthalene	ND	0.50	0.059	1.00	
2-Chlorophenol	ND	0.50	0.067	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	0.064	1.00	
Chrysene	ND	0.50	0.064	1.00	
Di-n-Butyl Phthalate	ND	0.50	0.060	1.00	
Di-n-Octyl Phthalate	ND	0.50	0.10	1.00	
Dibenz (a,h) Anthracene	ND	0.50	0.046	1.00	
Dibenzofuran	ND	0.50	0.060	1.00	
1,2-Dichlorobenzene	ND	0.50	0.064	1.00	
1,3-Dichlorobenzene	ND	0.50	0.073	1.00	
1,4-Dichlorobenzene	ND	0.50	0.075	1.00	
3,3'-Dichlorobenzidine	ND	10	0.36	1.00	
2,4-Dichlorophenol	ND	0.50	0.058	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.50	0.058	1.00	
Dimethyl Phthalate	ND	0.50	0.11	1.00	
2,4-Dimethylphenol	ND	0.50	0.27	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	0.63	1.00	
2,4-Dinitrophenol	ND	2.5	0.34	1.00	
2,4-Dinitrotoluene	ND	0.50	0.067	1.00	
2,6-Dichlorophenol	ND	0.50	0.059	1.00	
2,6-Dinitrotoluene	ND	0.50	0.073	1.00	
Fluoranthene	ND	0.50	0.062	1.00	
Fluorene	ND	0.50	0.063	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	0.063	1.00	
Hexachlorobenzene	ND	0.50	0.067	1.00	
Hexachlorocyclopentadiene	ND	2.5	0.50	1.00	
Hexachloroethane	ND	0.50	0.078	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.053	1.00	
Isophorone	ND	0.50	0.057	1.00	
2-Methylnaphthalene	ND	0.50	0.060	1.00	
1-Methylnaphthalene	ND	0.50	0.056	1.00	
2-Methylphenol	ND	0.50	0.087	1.00	
3/4-Methylphenol	ND	0.50	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	0.084	1.00	
N-Nitrosodimethylamine	ND	0.50	0.047	1.00	
N-Nitrosodiphenylamine	ND	0.50	0.14	1.00	
Naphthalene	ND	0.50	0.059	1.00	
4-Nitroaniline	ND	0.50	0.065	1.00	
3-Nitroaniline	ND	0.50	0.070	1.00	
2-Nitroaniline	ND	0.50	0.052	1.00	
Nitrobenzene	ND	2.5	0.32	1.00	
4-Nitrophenol	ND	0.50	0.054	1.00	
2-Nitrophenol	ND	0.50	0.067	1.00	
Pentachlorophenol	ND	2.5	0.39	1.00	
Phenanthrene	ND	0.50	0.069	1.00	
Phenol	ND	0.50	0.048	1.00	
Pyrene	ND	0.50	0.077	1.00	
Pyridine	ND	0.50	0.055	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.059	1.00	
2,4,6-Trichlorophenol	ND	0.50	0.077	1.00	
2,4,5-Trichlorophenol	ND	0.50	0.064	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Aliso Canyon / 603287.048		Page 27 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	79	27-120	
2-Fluorophenol	84	25-120	
Nitrobenzene-d5	90	33-123	
p-Terphenyl-d14	90	27-159	
Phenol-d6	86	26-122	
2,4,6-Tribromophenol	76	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 5035
		Method:	GC/MS / EPA 8260B
		Units:	ug/kg
Project: Aliso Canyon / 603287.048			Page 1 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-1-E**	**04/20/16 15:00**	**Solid**	**GC/MS W**	**04/20/16**	**04/21/16 21:03**	**160421L020**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	36	44	5.5	1.00	J
Benzene	0.33	0.88	0.11	1.00	J
Bromobenzene	ND	0.88	0.19	1.00	
Bromochloromethane	ND	1.8	0.61	1.00	
Bromodichloromethane	ND	0.88	0.21	1.00	
Bromoform	ND	4.4	0.70	1.00	
Bromomethane	ND	18	8.3	1.00	
2-Butanone	ND	18	3.3	1.00	
n-Butylbenzene	ND	0.88	0.14	1.00	
sec-Butylbenzene	ND	0.88	0.51	1.00	
tert-Butylbenzene	ND	0.88	0.13	1.00	
Carbon Disulfide	ND	8.8	0.27	1.00	
Carbon Tetrachloride	ND	0.88	0.25	1.00	
Chlorobenzene	ND	0.88	0.20	1.00	
Chloroethane	ND	1.8	1.3	1.00	
Chloroform	ND	0.88	0.21	1.00	
Chloromethane	ND	18	0.27	1.00	
2-Chlorotoluene	ND	0.88	0.20	1.00	
4-Chlorotoluene	ND	0.88	0.19	1.00	
Dibromochloromethane	ND	1.8	0.50	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.4	1.5	1.00	
1,2-Dibromoethane	ND	0.88	0.23	1.00	
Dibromomethane	ND	0.88	0.68	1.00	
1,2-Dichlorobenzene	ND	0.88	0.20	1.00	
1,3-Dichlorobenzene	ND	0.88	0.16	1.00	
1,4-Dichlorobenzene	ND	0.88	0.20	1.00	
Dichlorodifluoromethane	ND	1.8	0.39	1.00	
1,1-Dichloroethane	ND	0.88	0.19	1.00	
1,2-Dichloroethane	ND	0.88	0.28	1.00	
1,1-Dichloroethene	ND	0.88	0.31	1.00	
c-1,2-Dichloroethene	ND	0.88	0.25	1.00	
t-1,2-Dichloroethene	ND	0.88	0.45	1.00	
1,2-Dichloropropane	ND	0.88	0.39	1.00	
1,3-Dichloropropane	ND	0.88	0.22	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.4	0.29	1.00	
1,1-Dichloropropene	ND	1.8	0.29	1.00	
c-1,3-Dichloropropene	ND	0.88	0.22	1.00	
t-1,3-Dichloropropene	ND	1.8	0.54	1.00	
Ethylbenzene	ND	0.88	0.13	1.00	
2-Hexanone	ND	18	1.6	1.00	
Isopropylbenzene	ND	0.88	0.48	1.00	
p-Isopropyltoluene	ND	0.88	0.56	1.00	
Methylene Chloride	ND	8.8	1.2	1.00	
4-Methyl-2-Pentanone	ND	18	3.8	1.00	
Naphthalene	ND	8.8	0.72	1.00	
n-Propylbenzene	ND	1.8	0.44	1.00	
Styrene	ND	0.88	0.53	1.00	
1,1,1,2-Tetrachloroethane	ND	0.88	0.21	1.00	
1,1,2,2-Tetrachloroethane	ND	1.8	0.31	1.00	
Tetrachloroethene	ND	0.88	0.19	1.00	
Toluene	ND	0.88	0.46	1.00	
1,2,3-Trichlorobenzene	ND	1.8	0.81	1.00	
1,2,4-Trichlorobenzene	ND	1.8	0.27	1.00	
1,1,1-Trichloroethane	ND	0.88	0.20	1.00	
1,1,2-Trichloroethane	ND	0.88	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.8	0.31	1.00	
Trichloroethene	ND	1.8	0.27	1.00	
Trichlorofluoromethane	ND	8.8	0.33	1.00	
1,2,3-Trichloropropane	ND	1.8	0.73	1.00	
1,2,4-Trimethylbenzene	ND	1.8	0.52	1.00	
1,3,5-Trimethylbenzene	ND	1.8	0.48	1.00	
Vinyl Acetate	ND	8.8	4.2	1.00	
Vinyl Chloride	ND	0.88	0.44	1.00	
p/m-Xylene	ND	1.8	0.24	1.00	
o-Xylene	ND	0.88	0.49	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.26	1.00	
Tert-Butyl Alcohol (TBA)	ND	18	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	0.88	0.43	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.88	0.45	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.88	0.31	1.00	
Ethanol	ND	440	74	1.00	
Gasoline Range Organics (C4-C12)	44	44	31	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 3 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	79-139	
1,2-Dichloroethane-d4	110	71-155	
1,4-Bromofluorobenzene	94	80-120	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	97	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1366
Preparation:	EPA 5035
Method:	GC/MS / EPA 8260B
Units:	ug/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-2-D**	**04/20/16 16:10**	**Solid**	**GC/MS W**	**04/20/16**	**04/21/16 19:52**	**160421L020**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	75	50	6.2	1.00	
Benzene	0.39	1.0	0.13	1.00	J
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	5.2	20	3.8	1.00	J
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.48	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.51	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.35	1.00	
Ethanol	ND	500	84	1.00	
Gasoline Range Organics (C4-C12)	47	50	35	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 6 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	79-139	
1,2-Dichloroethane-d4	113	71-155	
1,4-Bromofluorobenzene	94	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 5035
		Method:	GC/MS / EPA 8260B
		Units:	ug/kg
Project: Aliso Canyon / 603287.048			Page 7 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-3-E**	**04/20/16 16:00**	**Solid**	**GC/MS W**	**04/20/16**	**04/21/16 21:30**	**160421L032**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	4100	3100	380	50.0	
Benzene	ND	61	8.0	50.0	
Bromobenzene	ND	61	13	50.0	
Bromochloromethane	ND	120	42	50.0	
Bromodichloromethane	ND	61	14	50.0	
Bromoform	ND	310	49	50.0	
Bromomethane	ND	1200	580	50.0	
2-Butanone	900	1200	230	50.0	J
n-Butylbenzene	ND	61	9.6	50.0	
sec-Butylbenzene	ND	61	35	50.0	
tert-Butylbenzene	ND	61	9.2	50.0	
Carbon Disulfide	ND	610	19	50.0	
Carbon Tetrachloride	ND	61	17	50.0	
Chlorobenzene	ND	61	14	50.0	
Chloroethane	ND	120	91	50.0	
Chloroform	ND	61	15	50.0	
Chloromethane	130	1200	19	50.0	J
2-Chlorotoluene	ND	61	14	50.0	
4-Chlorotoluene	ND	61	13	50.0	
Dibromochloromethane	ND	120	35	50.0	
1,2-Dibromo-3-Chloropropane	ND	310	110	50.0	
1,2-Dibromoethane	ND	61	16	50.0	
Dibromomethane	ND	61	47	50.0	
1,2-Dichlorobenzene	ND	61	14	50.0	
1,3-Dichlorobenzene	ND	61	11	50.0	
1,4-Dichlorobenzene	ND	61	14	50.0	
Dichlorodifluoromethane	ND	120	27	50.0	
1,1-Dichloroethane	ND	61	13	50.0	
1,2-Dichloroethane	ND	61	19	50.0	
1,1-Dichloroethene	ND	61	21	50.0	
c-1,2-Dichloroethene	ND	61	17	50.0	
t-1,2-Dichloroethene	ND	61	31	50.0	
1,2-Dichloropropane	ND	61	27	50.0	
1,3-Dichloropropane	ND	61	15	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	310	20	50.0	
1,1-Dichloropropene	ND	120	20	50.0	
c-1,3-Dichloropropene	ND	61	16	50.0	
t-1,3-Dichloropropene	ND	120	37	50.0	
Ethylbenzene	ND	61	9.3	50.0	
2-Hexanone	140	1200	110	50.0	J
Isopropylbenzene	ND	61	33	50.0	
p-Isopropyltoluene	ND	61	39	50.0	
Methylene Chloride	ND	610	82	50.0	
4-Methyl-2-Pentanone	ND	1200	260	50.0	
Naphthalene	ND	610	50	50.0	
n-Propylbenzene	ND	120	31	50.0	
Styrene	ND	61	37	50.0	
1,1,1,2-Tetrachloroethane	ND	61	15	50.0	
1,1,2,2-Tetrachloroethane	ND	120	21	50.0	
Tetrachloroethene	ND	61	13	50.0	
Toluene	ND	61	32	50.0	
1,2,3-Trichlorobenzene	ND	120	56	50.0	
1,2,4-Trichlorobenzene	ND	120	19	50.0	
1,1,1-Trichloroethane	ND	61	14	50.0	
1,1,2-Trichloroethane	ND	61	22	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	610	22	50.0	
Trichloroethene	ND	120	18	50.0	
Trichlorofluoromethane	ND	610	23	50.0	
1,2,3-Trichloropropane	ND	120	51	50.0	
1,2,4-Trimethylbenzene	ND	120	36	50.0	
1,3,5-Trimethylbenzene	ND	120	34	50.0	
Vinyl Acetate	ND	610	290	50.0	
Vinyl Chloride	ND	61	31	50.0	
p/m-Xylene	ND	120	16	50.0	
o-Xylene	ND	61	34	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	120	18	50.0	
Tert-Butyl Alcohol (TBA)	ND	1200	320	50.0	
Diisopropyl Ether (DIPE)	ND	61	30	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	61	31	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	61	22	50.0	
Ethanol	ND	31000	5100	50.0	
Gasoline Range Organics (C4-C12)	7300	3100	2200	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 9 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-139	
1,2-Dichloroethane-d4	101	71-155	
1,4-Bromofluorobenzene	97	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1366
Preparation:	EPA 5035
Method:	GC/MS / EPA 8260B
Units:	ug/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-4-F**	**04/20/16 17:15**	**Solid**	**GC/MS W**	**04/20/16**	**04/21/16 22:59**	**160421L032**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	610	2700	340	50.0	J
Benzene	ND	54	7.1	50.0	
Bromobenzene	ND	54	11	50.0	
Bromochloromethane	ND	110	38	50.0	
Bromodichloromethane	ND	54	13	50.0	
Bromoform	ND	270	43	50.0	
Bromomethane	ND	1100	510	50.0	
2-Butanone	ND	1100	200	50.0	
n-Butylbenzene	330	54	8.5	50.0	
sec-Butylbenzene	66	54	31	50.0	
tert-Butylbenzene	ND	54	8.2	50.0	
Carbon Disulfide	ND	540	17	50.0	
Carbon Tetrachloride	ND	54	15	50.0	
Chlorobenzene	ND	54	12	50.0	
Chloroethane	ND	110	81	50.0	
Chloroform	ND	54	13	50.0	
Chloromethane	29	1100	17	50.0	J
2-Chlorotoluene	ND	54	13	50.0	
4-Chlorotoluene	ND	54	12	50.0	
Dibromochloromethane	ND	110	31	50.0	
1,2-Dibromo-3-Chloropropane	ND	270	95	50.0	
1,2-Dibromoethane	ND	54	14	50.0	
Dibromomethane	ND	54	42	50.0	
1,2-Dichlorobenzene	ND	54	12	50.0	
1,3-Dichlorobenzene	ND	54	9.6	50.0	
1,4-Dichlorobenzene	ND	54	12	50.0	
Dichlorodifluoromethane	ND	110	24	50.0	
1,1-Dichloroethane	ND	54	11	50.0	
1,2-Dichloroethane	ND	54	17	50.0	
1,1-Dichloroethene	ND	54	19	50.0	
c-1,2-Dichloroethene	ND	54	15	50.0	
t-1,2-Dichloroethene	ND	54	28	50.0	
1,2-Dichloropropane	ND	54	24	50.0	
1,3-Dichloropropane	ND	54	14	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	270	18	50.0	
1,1-Dichloropropene	ND	110	18	50.0	
c-1,3-Dichloropropene	ND	54	14	50.0	
t-1,3-Dichloropropene	ND	110	33	50.0	
Ethylbenzene	94	54	8.2	50.0	
2-Hexanone	ND	1100	96	50.0	
Isopropylbenzene	44	54	30	50.0	J
p-Isopropyltoluene	130	54	34	50.0	
Methylene Chloride	ND	540	73	50.0	
4-Methyl-2-Pentanone	ND	1100	230	50.0	
Naphthalene	9400	540	44	50.0	
n-Propylbenzene	110	110	27	50.0	
Styrene	ND	54	33	50.0	
1,1,1,2-Tetrachloroethane	ND	54	13	50.0	
1,1,2,2-Tetrachloroethane	ND	110	19	50.0	
Tetrachloroethene	ND	54	11	50.0	
Toluene	95	54	28	50.0	
1,2,3-Trichlorobenzene	ND	110	50	50.0	
1,2,4-Trichlorobenzene	ND	110	17	50.0	
1,1,1-Trichloroethane	ND	54	12	50.0	
1,1,2-Trichloroethane	ND	54	19	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	540	19	50.0	
Trichloroethene	ND	110	16	50.0	
Trichlorofluoromethane	ND	540	20	50.0	
1,2,3-Trichloropropane	ND	110	45	50.0	
1,2,4-Trimethylbenzene	1200	110	32	50.0	
1,3,5-Trimethylbenzene	440	110	30	50.0	
Vinyl Acetate	ND	540	260	50.0	
Vinyl Chloride	ND	54	27	50.0	
p/m-Xylene	710	110	15	50.0	
o-Xylene	260	54	30	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	110	16	50.0	
Tert-Butyl Alcohol (TBA)	ND	1100	280	50.0	
Diisopropyl Ether (DIPE)	ND	54	26	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	54	28	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	54	19	50.0	
Ethanol	ND	27000	4500	50.0	
Gasoline Range Organics (C4-C12)	44000	2700	1900	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 12 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	79-139	
1,2-Dichloroethane-d4	100	71-155	
1,4-Bromofluorobenzene	100	80-120	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	97	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 5035
		Method:	GC/MS / EPA 8260B
		Units:	ug/kg
Project: Aliso Canyon / 603287.048			Page 13 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-5-E**	**04/20/16 17:30**	**Solid**	**GC/MS W**	**04/20/16**	**04/21/16 23:25**	**160421L032**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	2500	320	50.0	
Benzene	ND	51	6.6	50.0	
Bromobenzene	ND	51	11	50.0	
Bromochloromethane	ND	100	35	50.0	
Bromodichloromethane	ND	51	12	50.0	
Bromoform	ND	250	40	50.0	
Bromomethane	ND	1000	480	50.0	
2-Butanone	ND	1000	190	50.0	
n-Butylbenzene	330	51	8.0	50.0	
sec-Butylbenzene	53	51	29	50.0	
tert-Butylbenzene	ND	51	7.7	50.0	
Carbon Disulfide	ND	510	16	50.0	
Carbon Tetrachloride	ND	51	14	50.0	
Chlorobenzene	ND	51	11	50.0	
Chloroethane	ND	100	76	50.0	
Chloroform	ND	51	12	50.0	
Chloromethane	35	1000	15	50.0	J
2-Chlorotoluene	ND	51	12	50.0	
4-Chlorotoluene	ND	51	11	50.0	
Dibromochloromethane	ND	100	29	50.0	
1,2-Dibromo-3-Chloropropane	ND	250	88	50.0	
1,2-Dibromoethane	ND	51	13	50.0	
Dibromomethane	ND	51	39	50.0	
1,2-Dichlorobenzene	ND	51	12	50.0	
1,3-Dichlorobenzene	ND	51	8.9	50.0	
1,4-Dichlorobenzene	ND	51	11	50.0	
Dichlorodifluoromethane	ND	100	23	50.0	
1,1-Dichloroethane	ND	51	11	50.0	
1,2-Dichloroethane	ND	51	16	50.0	
1,1-Dichloroethene	ND	51	18	50.0	
c-1,2-Dichloroethene	ND	51	14	50.0	
t-1,2-Dichloroethene	ND	51	26	50.0	
1,2-Dichloropropane	ND	51	22	50.0	
1,3-Dichloropropane	ND	51	13	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	250	17	50.0	
1,1-Dichloropropene	ND	100	17	50.0	
c-1,3-Dichloropropene	ND	51	13	50.0	
t-1,3-Dichloropropene	ND	100	31	50.0	
Ethylbenzene	29	51	7.7	50.0	J
2-Hexanone	ND	1000	90	50.0	
Isopropylbenzene	32	51	28	50.0	J
p-Isopropyltoluene	120	51	32	50.0	
Methylene Chloride	ND	510	68	50.0	
4-Methyl-2-Pentanone	ND	1000	220	50.0	
n-Propylbenzene	70	100	25	50.0	J
Styrene	ND	51	31	50.0	
1,1,1,2-Tetrachloroethane	ND	51	12	50.0	
1,1,2,2-Tetrachloroethane	ND	100	18	50.0	
Tetrachloroethene	ND	51	11	50.0	
Toluene	ND	51	26	50.0	
1,2,3-Trichlorobenzene	ND	100	46	50.0	
1,2,4-Trichlorobenzene	ND	100	16	50.0	
1,1,1-Trichloroethane	ND	51	11	50.0	
1,1,2-Trichloroethane	ND	51	18	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	510	18	50.0	
Trichloroethene	ND	100	15	50.0	
Trichlorofluoromethane	ND	510	19	50.0	
1,2,3-Trichloropropane	ND	100	42	50.0	
1,2,4-Trimethylbenzene	850	100	30	50.0	
1,3,5-Trimethylbenzene	320	100	28	50.0	
Vinyl Acetate	ND	510	240	50.0	
Vinyl Chloride	ND	51	26	50.0	
p/m-Xylene	240	100	14	50.0	
o-Xylene	93	51	28	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	100	15	50.0	
Tert-Butyl Alcohol (TBA)	ND	1000	260	50.0	
Diisopropyl Ether (DIPE)	ND	51	25	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	51	26	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	51	18	50.0	
Ethanol	ND	25000	4200	50.0	
Gasoline Range Organics (C4-C12)	36000	2500	1800	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 5035
		Method:	GC/MS / EPA 8260B
		Units:	ug/kg
Project: Aliso Canyon / 603287.048			Page 15 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	79-139	
1,2-Dichloroethane-d4	99	71-155	
1,4-Bromofluorobenzene	99	80-120	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	96	87-111	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-5-E**	**04/20/16 17:30**	**Solid**	**GC/MS W**	**04/20/16**	**04/22/16 12:48**	**160422L009**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Naphthalene	13000	1000	83	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	79-139	
1,2-Dichloroethane-d4	100	71-155	
1,4-Bromofluorobenzene	101	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	99	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1366
Preparation:	EPA 5035
Method:	GC/MS / EPA 8260B
Units:	ug/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-6-E**	**04/20/16 17:35**	**Solid**	**GC/MS W**	**04/20/16**	**04/22/16 13:15**	**160422L009**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	36000	4400	500	
Benzene	ND	710	92	500	
Bromobenzene	ND	710	150	500	
Bromochloromethane	ND	1400	490	500	
Bromodichloromethane	ND	710	170	500	
Bromoform	ND	3600	560	500	
Bromomethane	ND	14000	6700	500	
2-Butanone	ND	14000	2700	500	
n-Butylbenzene	150	710	110	500	J
sec-Butylbenzene	ND	710	410	500	
tert-Butylbenzene	ND	710	110	500	
Carbon Disulfide	ND	7100	220	500	
Carbon Tetrachloride	ND	710	200	500	
Chlorobenzene	ND	710	160	500	
Chloroethane	ND	1400	1100	500	
Chloroform	ND	710	170	500	
Chloromethane	ND	14000	220	500	
2-Chlorotoluene	ND	710	160	500	
4-Chlorotoluene	ND	710	150	500	
Dibromochloromethane	ND	1400	400	500	
1,2-Dibromo-3-Chloropropane	ND	3600	1200	500	
1,2-Dibromoethane	ND	710	180	500	
Dibromomethane	ND	710	550	500	
1,2-Dichlorobenzene	ND	710	160	500	
1,3-Dichlorobenzene	ND	710	130	500	
1,4-Dichlorobenzene	ND	710	160	500	
Dichlorodifluoromethane	ND	1400	310	500	
1,1-Dichloroethane	ND	710	150	500	
1,2-Dichloroethane	ND	710	220	500	
1,1-Dichloroethene	ND	710	250	500	
c-1,2-Dichloroethene	ND	710	200	500	
t-1,2-Dichloroethene	ND	710	360	500	
1,2-Dichloropropane	ND	710	310	500	
1,3-Dichloropropane	ND	710	180	500	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	3600	230	500	
1,1-Dichloropropene	ND	1400	230	500	
c-1,3-Dichloropropene	ND	710	180	500	
t-1,3-Dichloropropene	ND	1400	430	500	
Ethylbenzene	ND	710	110	500	
2-Hexanone	ND	14000	1300	500	
Isopropylbenzene	ND	710	390	500	
p-Isopropyltoluene	ND	710	450	500	
Methylene Chloride	ND	7100	950	500	
4-Methyl-2-Pentanone	ND	14000	3100	500	
Naphthalene	5100	7100	580	500	J
n-Propylbenzene	ND	1400	360	500	
Styrene	ND	710	430	500	
1,1,1,2-Tetrachloroethane	ND	710	170	500	
1,1,2,2-Tetrachloroethane	ND	1400	250	500	
Tetrachloroethene	ND	710	150	500	
Toluene	ND	710	370	500	
1,2,3-Trichlorobenzene	ND	1400	650	500	
1,2,4-Trichlorobenzene	ND	1400	220	500	
1,1,1-Trichloroethane	ND	710	160	500	
1,1,2-Trichloroethane	ND	710	250	500	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7100	250	500	
Trichloroethene	ND	1400	210	500	
Trichlorofluoromethane	ND	7100	270	500	
1,2,3-Trichloropropane	ND	1400	590	500	
1,2,4-Trimethylbenzene	ND	1400	420	500	
1,3,5-Trimethylbenzene	ND	1400	390	500	
Vinyl Acetate	ND	7100	3400	500	
Vinyl Chloride	ND	710	360	500	
p/m-Xylene	ND	1400	190	500	
o-Xylene	ND	710	400	500	
Methyl-t-Butyl Ether (MTBE)	ND	1400	210	500	
Tert-Butyl Alcohol (TBA)	ND	14000	3700	500	
Diisopropyl Ether (DIPE)	ND	710	340	500	
Ethyl-t-Butyl Ether (ETBE)	ND	710	360	500	
Tert-Amyl-Methyl Ether (TAME)	ND	710	250	500	
Ethanol	ND	360000	59000	500	
Gasoline Range Organics (C4-C12)	47000	36000	25000	500	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 18 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-139	
1,2-Dichloroethane-d4	96	71-155	
1,4-Bromofluorobenzene	100	80-120	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	96	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-7-E**	**04/20/16 18:00**	**Solid**	**GC/MS W**	**04/20/16**	**04/22/16 13:41**	**160422L009**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
- Reporting limit is elevated due to high levels of non-target hydrocarbons.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	3800	9800	1200	200	J
Benzene	ND	200	25	200	
Bromobenzene	ND	200	41	200	
Bromochloromethane	ND	390	140	200	
Bromodichloromethane	ND	200	46	200	
Bromoform	ND	980	160	200	
Bromomethane	ND	3900	1800	200	
2-Butanone	ND	3900	740	200	
n-Butylbenzene	ND	200	31	200	
sec-Butylbenzene	ND	200	110	200	
tert-Butylbenzene	ND	200	30	200	
Carbon Disulfide	ND	2000	60	200	
Carbon Tetrachloride	ND	200	55	200	
Chlorobenzene	ND	200	44	200	
Chloroethane	ND	390	290	200	
Chloroform	ND	200	47	200	
Chloromethane	140	3900	60	200	J
2-Chlorotoluene	ND	200	45	200	
4-Chlorotoluene	ND	200	42	200	
Dibromochloromethane	ND	390	110	200	
1,2-Dibromo-3-Chloropropane	ND	980	340	200	
1,2-Dibromoethane	ND	200	50	200	
Dibromomethane	ND	200	150	200	
1,2-Dichlorobenzene	ND	200	45	200	
1,3-Dichlorobenzene	ND	200	34	200	
1,4-Dichlorobenzene	ND	200	43	200	
Dichlorodifluoromethane	ND	390	87	200	
1,1-Dichloroethane	ND	200	41	200	
1,2-Dichloroethane	ND	200	61	200	
1,1-Dichloroethene	ND	200	68	200	
c-1,2-Dichloroethene	ND	200	55	200	
t-1,2-Dichloroethene	ND	200	99	200	
1,2-Dichloropropane	ND	200	86	200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	200	49	200	
2,2-Dichloropropane	ND	980	65	200	
1,1-Dichloropropene	ND	390	64	200	
c-1,3-Dichloropropene	ND	200	50	200	
t-1,3-Dichloropropene	ND	390	120	200	
Ethylbenzene	ND	200	30	200	
2-Hexanone	ND	3900	340	200	
Isopropylbenzene	ND	200	110	200	
p-Isopropyltoluene	ND	200	120	200	
Methylene Chloride	ND	2000	260	200	
4-Methyl-2-Pentanone	ND	3900	850	200	
Naphthalene	730	2000	160	200	J
n-Propylbenzene	ND	390	98	200	
Styrene	ND	200	120	200	
1,1,1,2-Tetrachloroethane	ND	200	47	200	
1,1,2,2-Tetrachloroethane	ND	390	68	200	
Tetrachloroethene	ND	200	41	200	
Toluene	ND	200	100	200	
1,2,3-Trichlorobenzene	ND	390	180	200	
1,2,4-Trichlorobenzene	ND	390	61	200	
1,1,1-Trichloroethane	ND	200	44	200	
1,1,2-Trichloroethane	ND	200	69	200	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2000	69	200	
Trichloroethene	ND	390	59	200	
Trichlorofluoromethane	ND	2000	73	200	
1,2,3-Trichloropropane	ND	390	160	200	
1,2,4-Trimethylbenzene	ND	390	110	200	
1,3,5-Trimethylbenzene	ND	390	110	200	
Vinyl Acetate	ND	2000	930	200	
Vinyl Chloride	ND	200	98	200	
p/m-Xylene	ND	390	52	200	
o-Xylene	ND	200	110	200	
Methyl-t-Butyl Ether (MTBE)	ND	390	58	200	
Tert-Butyl Alcohol (TBA)	ND	3900	1000	200	
Diisopropyl Ether (DIPE)	ND	200	94	200	
Ethyl-t-Butyl Ether (ETBE)	ND	200	99	200	
Tert-Amyl-Methyl Ether (TAME)	ND	200	69	200	
Ethanol	ND	98000	16000	200	
Gasoline Range Organics (C4-C12)	22000	9800	6900	200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 21 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	79-139	
1,2-Dichloroethane-d4	97	71-155	
1,4-Bromofluorobenzene	100	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 5035
		Method:	GC/MS / EPA 8260B
		Units:	ug/kg
Project: Aliso Canyon / 603287.048			Page 22 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1366-8-G**	**04/20/16 18:50**	**Solid**	**GC/MS W**	**04/20/16**	**04/21/16 18:58**	**160421L020**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	34	57	7.1	1.00	J
Benzene	0.65	1.1	0.15	1.00	J
Bromobenzene	ND	1.1	0.24	1.00	
Bromochloromethane	ND	2.3	0.79	1.00	
Bromodichloromethane	ND	1.1	0.27	1.00	
Bromoform	ND	5.7	0.91	1.00	
Bromomethane	ND	23	11	1.00	
2-Butanone	ND	23	4.3	1.00	
n-Butylbenzene	0.27	1.1	0.18	1.00	J
sec-Butylbenzene	ND	1.1	0.66	1.00	
tert-Butylbenzene	ND	1.1	0.17	1.00	
Carbon Disulfide	ND	11	0.35	1.00	
Carbon Tetrachloride	ND	1.1	0.32	1.00	
Chlorobenzene	ND	1.1	0.26	1.00	
Chloroethane	ND	2.3	1.7	1.00	
Chloroform	ND	1.1	0.27	1.00	
Chloromethane	ND	23	0.35	1.00	
2-Chlorotoluene	ND	1.1	0.26	1.00	
4-Chlorotoluene	ND	1.1	0.24	1.00	
Dibromochloromethane	ND	2.3	0.65	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.7	2.0	1.00	
1,2-Dibromoethane	ND	1.1	0.29	1.00	
Dibromomethane	ND	1.1	0.89	1.00	
1,2-Dichlorobenzene	ND	1.1	0.26	1.00	
1,3-Dichlorobenzene	ND	1.1	0.20	1.00	
1,4-Dichlorobenzene	ND	1.1	0.25	1.00	
Dichlorodifluoromethane	ND	2.3	0.51	1.00	
1,1-Dichloroethane	ND	1.1	0.24	1.00	
1,2-Dichloroethane	ND	1.1	0.36	1.00	
1,1-Dichloroethene	ND	1.1	0.40	1.00	
c-1,2-Dichloroethene	ND	1.1	0.32	1.00	
t-1,2-Dichloroethene	ND	1.1	0.58	1.00	
1,2-Dichloropropane	ND	1.1	0.50	1.00	
1,3-Dichloropropane	ND	1.1	0.29	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.7	0.38	1.00	
1,1-Dichloropropene	ND	2.3	0.38	1.00	
c-1,3-Dichloropropene	ND	1.1	0.29	1.00	
t-1,3-Dichloropropene	ND	2.3	0.69	1.00	
Ethylbenzene	5.5	1.1	0.17	1.00	
2-Hexanone	ND	23	2.0	1.00	
Isopropylbenzene	ND	1.1	0.62	1.00	
p-Isopropyltoluene	ND	1.1	0.72	1.00	
Methylene Chloride	ND	11	1.5	1.00	
4-Methyl-2-Pentanone	ND	23	4.9	1.00	
Naphthalene	ND	11	0.93	1.00	
n-Propylbenzene	0.60	2.3	0.57	1.00	J
Styrene	ND	1.1	0.69	1.00	
1,1,1,2-Tetrachloroethane	ND	1.1	0.27	1.00	
1,1,2,2-Tetrachloroethane	ND	2.3	0.40	1.00	
Tetrachloroethene	ND	1.1	0.24	1.00	
Toluene	4.4	1.1	0.59	1.00	
1,2,3-Trichlorobenzene	ND	2.3	1.0	1.00	
1,2,4-Trichlorobenzene	ND	2.3	0.35	1.00	
1,1,1-Trichloroethane	ND	1.1	0.26	1.00	
1,1,2-Trichloroethane	ND	1.1	0.41	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	0.40	1.00	
Trichloroethene	ND	2.3	0.34	1.00	
Trichlorofluoromethane	ND	11	0.43	1.00	
1,2,3-Trichloropropane	ND	2.3	0.95	1.00	
1,2,4-Trimethylbenzene	ND	2.3	0.67	1.00	
1,3,5-Trimethylbenzene	ND	2.3	0.63	1.00	
Vinyl Acetate	ND	11	5.4	1.00	
Vinyl Chloride	ND	1.1	0.58	1.00	
p/m-Xylene	0.56	2.3	0.31	1.00	J
o-Xylene	ND	1.1	0.64	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.3	0.34	1.00	
Tert-Butyl Alcohol (TBA)	ND	23	5.9	1.00	
Diisopropyl Ether (DIPE)	ND	1.1	0.55	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.1	0.58	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.1	0.40	1.00	
Ethanol	ND	570	96	1.00	
Gasoline Range Organics (C4-C12)	120	57	40	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 24 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-139	
1,2-Dichloroethane-d4	114	71-155	
1,4-Bromofluorobenzene	97	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1366
Preparation:	EPA 5035
Method:	GC/MS / EPA 8260B
Units:	ug/kg

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-779-1784**	**N/A**	**Solid**	**GC/MS W**	**04/21/16**	**04/21/16 18:05**	**160421L020**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.48	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.51	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.35	1.00	
Ethanol	ND	500	84	1.00	
Gasoline Range Organics (C4-C12)	ND	50	35	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 27 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	79-139	
1,2-Dichloroethane-d4	103	71-155	
1,4-Bromofluorobenzene	100	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 5035
		Method:	GC/MS / EPA 8260B
		Units:	ug/kg
Project: Aliso Canyon / 603287.048			Page 28 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-779-1785**	**N/A**	**Solid**	**GC/MS W**	**04/21/16**	**04/21/16 18:32**	**160421L032**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	5000	620	50.0	
Benzene	ND	100	13	50.0	
Bromobenzene	ND	100	21	50.0	
Bromochloromethane	ND	200	69	50.0	
Bromodichloromethane	ND	100	23	50.0	
Bromoform	ND	500	79	50.0	
Bromomethane	ND	2000	940	50.0	
2-Butanone	ND	2000	380	50.0	
n-Butylbenzene	ND	100	16	50.0	
sec-Butylbenzene	ND	100	58	50.0	
tert-Butylbenzene	ND	100	15	50.0	
Carbon Disulfide	ND	1000	31	50.0	
Carbon Tetrachloride	ND	100	28	50.0	
Chlorobenzene	ND	100	22	50.0	
Chloroethane	ND	200	150	50.0	
Chloroform	ND	100	24	50.0	
Chloromethane	ND	2000	30	50.0	
2-Chlorotoluene	ND	100	23	50.0	
4-Chlorotoluene	ND	100	21	50.0	
Dibromochloromethane	ND	200	57	50.0	
1,2-Dibromo-3-Chloropropane	ND	500	170	50.0	
1,2-Dibromoethane	ND	100	26	50.0	
Dibromomethane	ND	100	77	50.0	
1,2-Dichlorobenzene	ND	100	23	50.0	
1,3-Dichlorobenzene	ND	100	18	50.0	
1,4-Dichlorobenzene	ND	100	22	50.0	
Dichlorodifluoromethane	ND	200	44	50.0	
1,1-Dichloroethane	ND	100	21	50.0	
1,2-Dichloroethane	ND	100	31	50.0	
1,1-Dichloroethene	ND	100	35	50.0	
c-1,2-Dichloroethene	ND	100	28	50.0	
t-1,2-Dichloroethene	ND	100	51	50.0	
1,2-Dichloropropane	ND	100	44	50.0	
1,3-Dichloropropane	ND	100	25	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	500	33	50.0	
1,1-Dichloropropene	ND	200	33	50.0	
c-1,3-Dichloropropene	ND	100	25	50.0	
t-1,3-Dichloropropene	ND	200	61	50.0	
Ethylbenzene	ND	100	15	50.0	
2-Hexanone	ND	2000	180	50.0	
Isopropylbenzene	ND	100	55	50.0	
p-Isopropyltoluene	ND	100	63	50.0	
Methylene Chloride	ND	1000	130	50.0	
4-Methyl-2-Pentanone	ND	2000	430	50.0	
Naphthalene	ND	1000	81	50.0	
n-Propylbenzene	ND	200	50	50.0	
Styrene	ND	100	60	50.0	
1,1,1,2-Tetrachloroethane	ND	100	24	50.0	
1,1,2,2-Tetrachloroethane	ND	200	35	50.0	
Tetrachloroethene	ND	100	21	50.0	
Toluene	ND	100	52	50.0	
1,2,3-Trichlorobenzene	ND	200	91	50.0	
1,2,4-Trichlorobenzene	ND	200	31	50.0	
1,1,1-Trichloroethane	ND	100	23	50.0	
1,1,2-Trichloroethane	ND	100	35	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	35	50.0	
Trichloroethene	ND	200	30	50.0	
Trichlorofluoromethane	ND	1000	38	50.0	
1,2,3-Trichloropropane	ND	200	83	50.0	
1,2,4-Trimethylbenzene	ND	200	59	50.0	
1,3,5-Trimethylbenzene	ND	200	55	50.0	
Vinyl Acetate	ND	1000	470	50.0	
Vinyl Chloride	ND	100	50	50.0	
p/m-Xylene	ND	200	27	50.0	
o-Xylene	ND	100	56	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	200	30	50.0	
Tert-Butyl Alcohol (TBA)	ND	2000	520	50.0	
Diisopropyl Ether (DIPE)	ND	100	48	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	100	51	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	100	35	50.0	
Ethanol	ND	50000	8400	50.0	
Gasoline Range Organics (C4-C12)	ND	5000	3500	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 30 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-139	
1,2-Dichloroethane-d4	101	71-155	
1,4-Bromofluorobenzene	97	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-779-1786**	**N/A**	**Solid**	**GC/MS W**	**04/22/16**	**04/22/16 12:22**	**160422L009**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	5000	620	50.0	
Benzene	ND	100	13	50.0	
Bromobenzene	ND	100	21	50.0	
Bromochloromethane	ND	200	69	50.0	
Bromodichloromethane	ND	100	23	50.0	
Bromoform	ND	500	79	50.0	
Bromomethane	ND	2000	940	50.0	
2-Butanone	ND	2000	380	50.0	
n-Butylbenzene	ND	100	16	50.0	
sec-Butylbenzene	ND	100	58	50.0	
tert-Butylbenzene	ND	100	15	50.0	
Carbon Disulfide	ND	1000	31	50.0	
Carbon Tetrachloride	ND	100	28	50.0	
Chlorobenzene	ND	100	22	50.0	
Chloroethane	ND	200	150	50.0	
Chloroform	ND	100	24	50.0	
Chloromethane	ND	2000	30	50.0	
2-Chlorotoluene	ND	100	23	50.0	
4-Chlorotoluene	ND	100	21	50.0	
Dibromochloromethane	ND	200	57	50.0	
1,2-Dibromo-3-Chloropropane	ND	500	170	50.0	
1,2-Dibromoethane	ND	100	26	50.0	
Dibromomethane	ND	100	77	50.0	
1,2-Dichlorobenzene	ND	100	23	50.0	
1,3-Dichlorobenzene	ND	100	18	50.0	
1,4-Dichlorobenzene	ND	100	22	50.0	
Dichlorodifluoromethane	ND	200	44	50.0	
1,1-Dichloroethane	ND	100	21	50.0	
1,2-Dichloroethane	ND	100	31	50.0	
1,1-Dichloroethene	ND	100	35	50.0	
c-1,2-Dichloroethene	ND	100	28	50.0	
t-1,2-Dichloroethene	ND	100	51	50.0	
1,2-Dichloropropane	ND	100	44	50.0	
1,3-Dichloropropane	ND	100	25	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	500	33	50.0	
1,1-Dichloropropene	ND	200	33	50.0	
c-1,3-Dichloropropene	ND	100	25	50.0	
t-1,3-Dichloropropene	ND	200	61	50.0	
Ethylbenzene	ND	100	15	50.0	
2-Hexanone	ND	2000	180	50.0	
Isopropylbenzene	ND	100	55	50.0	
p-Isopropyltoluene	ND	100	63	50.0	
Methylene Chloride	ND	1000	130	50.0	
4-Methyl-2-Pentanone	ND	2000	430	50.0	
Naphthalene	ND	1000	81	50.0	
n-Propylbenzene	ND	200	50	50.0	
Styrene	ND	100	60	50.0	
1,1,1,2-Tetrachloroethane	ND	100	24	50.0	
1,1,2,2-Tetrachloroethane	ND	200	35	50.0	
Tetrachloroethene	ND	100	21	50.0	
Toluene	ND	100	52	50.0	
1,2,3-Trichlorobenzene	ND	200	91	50.0	
1,2,4-Trichlorobenzene	ND	200	31	50.0	
1,1,1-Trichloroethane	ND	100	23	50.0	
1,1,2-Trichloroethane	ND	100	35	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	35	50.0	
Trichloroethene	ND	200	30	50.0	
Trichlorofluoromethane	ND	1000	38	50.0	
1,2,3-Trichloropropane	ND	200	83	50.0	
1,2,4-Trimethylbenzene	ND	200	59	50.0	
1,3,5-Trimethylbenzene	ND	200	55	50.0	
Vinyl Acetate	ND	1000	470	50.0	
Vinyl Chloride	ND	100	50	50.0	
p/m-Xylene	ND	200	27	50.0	
o-Xylene	ND	100	56	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	200	30	50.0	
Tert-Butyl Alcohol (TBA)	ND	2000	520	50.0	
Diisopropyl Ether (DIPE)	ND	100	48	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	100	51	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	100	35	50.0	
Ethanol	ND	50000	8400	50.0	
Gasoline Range Organics (C4-C12)	ND	5000	3500	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1366
Irvine, CA 92614-6009	Preparation:	EPA 5035
	Method:	GC/MS / EPA 8260B
	Units:	ug/kg
Project: Aliso Canyon / 603287.048		Page 33 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-139	
1,2-Dichloroethane-d4	99	71-155	
1,4-Bromofluorobenzene	99	80-120	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Aliso Canyon / 603287.048			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-04-1338-6	**Sample**	**Solid**	**GC 46**	**04/21/16**	**04/22/16 00:35**	**160421S04**
16-04-1338-6	**Matrix Spike**	**Solid**	**GC 46**	**04/21/16**	**04/21/16 22:35**	**160421S04**
16-04-1338-6	**Matrix Spike Duplicate**	**Solid**	**GC 46**	**04/21/16**	**04/21/16 22:52**	**160421S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	448.4	112	443.2	111	64-130	1	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3050B
Method: EPA 6010B

Project: Aliso Canyon / 603287.048

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SS1-SS-1	**Sample**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:48**	**160421S01**
SS1-SS-1	**Matrix Spike**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:39**	**160421S01**
SS1-SS-1	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:40**	**160421S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	4.533	18	4.056	16	50-115	11	0-20	3
Arsenic	12.94	25.00	41.74	115	37.86	100	75-125	10	0-20	
Barium	254.2	25.00	298.9	4X	294.6	4X	75-125	4X	0-20	Q
Beryllium	0.7510	25.00	28.75	112	27.49	107	75-125	4	0-20	
Cadmium	6.653	25.00	33.66	108	32.55	104	75-125	3	0-20	
Chromium	22.99	25.00	54.19	125	51.91	116	75-125	4	0-20	
Cobalt	8.878	25.00	34.98	104	34.90	104	75-125	0	0-20	
Copper	39.35	25.00	68.39	116	68.32	116	75-125	0	0-20	
Lead	8.042	25.00	33.35	101	31.90	95	75-125	4	0-20	
Molybdenum	13.21	25.00	38.00	99	34.46	85	75-125	10	0-20	
Nickel	78.48	25.00	109.3	123	123.4	180	75-125	12	0-20	3
Phosphorus	1854	25.00	2027	4X	1716	4X	75-125	4X	0-20	Q
Selenium	ND	25.00	23.81	95	17.99	72	75-125	28	0-20	3,4
Silver	ND	12.50	13.48	108	13.07	105	75-125	3	0-20	
Thallium	ND	25.00	25.35	101	23.41	94	75-125	8	0-20	
Vanadium	99.67	25.00	146.0	185	136.0	145	75-125	7	0-20	3
Zinc	156.4	25.00	166.4	4X	166.0	4X	75-125	4X	0-20	Q
Aluminum	7159	25.00	8294	4X	7962	4X	75-125	4X	0-20	Q
Calcium	31030	25.00	40500	4X	35220	4X	75-125	4X	0-20	Q
Iron	20200	25.00	23010	4X	21550	4X	75-125	4X	0-20	Q
Magnesium	3976	25.00	5647	4X	4636	4X	75-125	4X	0-20	Q
Manganese	295.7	25.00	353.4	4X	436.3	4X	75-125	4X	0-20	Q
Potassium	4051	250.0	4066	4X	4271	4X	75-125	4X	0-20	Q
Sodium	465.3	250.0	683.3	87	682.4	87	75-125	0	0-20	
Strontium	139.1	25.00	195.6	4X	177.3	4X	75-125	4X	0-20	Q
Titanium	344.0	25.00	406.0	4X	377.9	4X	75-125	4X	0-20	Q
Boron	14.16	25.00	41.41	109	37.91	95	75-125	9	0-20	
Silicon	617.9	25.00	817.2	4X	602.2	4X	75-125	4X	0-20	Q
Sulfur, Total	103.2	25.00	151.9	4X	145.7	4X	75-125	4X	0-20	Q

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 7471A Total
Method: EPA 7471A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-04-1148-1	**Sample**	**Sediment**	**Mercury 05**	**04/21/16**	**04/21/16 17:17**	**160421S02**
16-04-1148-1	**Matrix Spike**	**Sediment**	**Mercury 05**	**04/21/16**	**04/21/16 17:19**	**160421S02**
16-04-1148-1	**Matrix Spike Duplicate**	**Sediment**	**Mercury 05**	**04/21/16**	**04/21/16 17:21**	**160421S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.2372	0.8350	0.9683	88	1.246	121	76-136	25	0-16	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SS1-SS-1	**Sample**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 00:43**	**160421S10**
SS1-SS-1	**Matrix Spike**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 02:15**	**160421S10**
SS1-SS-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/22/16 02:34**	**160421S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	7.136	71	7.489	75	34-148	5	0-20	
Acenaphthylene	ND	10.00	6.585	66	7.026	70	53-120	6	0-20	
Butyl Benzyl Phthalate	ND	10.00	7.745	77	8.326	83	15-189	7	0-20	
4-Chloro-3-Methylphenol	ND	10.00	7.683	77	8.127	81	32-120	6	0-20	
2-Chlorophenol	ND	10.00	8.045	80	8.202	82	53-120	2	0-20	
1,4-Dichlorobenzene	ND	10.00	6.731	67	6.844	68	43-120	2	0-26	
Dimethyl Phthalate	ND	10.00	6.565	66	6.978	70	44-122	6	0-20	
2,4-Dinitrotoluene	ND	10.00	6.884	69	7.516	75	28-120	9	0-20	
Fluorene	ND	10.00	6.599	66	7.013	70	12-186	6	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	8.401	84	8.556	86	38-140	2	0-20	
Naphthalene	ND	10.00	6.763	68	6.912	69	20-140	2	0-20	
4-Nitrophenol	ND	10.00	5.656	57	6.049	60	14-128	7	0-59	
Pentachlorophenol	ND	10.00	3.954	40	3.508	35	10-124	12	0-20	
Phenol	ND	10.00	7.693	77	7.910	79	22-124	3	0-20	
Pyrene	ND	10.00	7.802	78	8.378	84	31-169	7	0-20	
1,2,4-Trichlorobenzene	ND	10.00	7.150	71	7.139	71	56-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Aliso Canyon / 603287.048			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-2051	**LCS**	**Solid**	**GC 46**	**04/21/16**	**04/21/16 22:17**	**160421B04A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	454.5	114	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Aliso Canyon / 603287.048			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-22570	**LCS**	**Solid**	**ICP 7300**	**04/21/16**	**04/22/16 12:12**	**160421L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	24.78	99	80-120	73-127	
Arsenic	25.00	25.51	102	80-120	73-127	
Barium	25.00	26.87	107	80-120	73-127	
Beryllium	25.00	24.85	99	80-120	73-127	
Cadmium	25.00	26.13	105	80-120	73-127	
Chromium	25.00	26.37	105	80-120	73-127	
Cobalt	25.00	27.03	108	80-120	73-127	
Copper	25.00	25.94	104	80-120	73-127	
Lead	25.00	26.57	106	80-120	73-127	
Molybdenum	25.00	25.95	104	80-120	73-127	
Nickel	25.00	27.18	109	80-120	73-127	
Phosphorus	25.00	25.12	100	80-120	73-127	
Selenium	25.00	24.81	99	80-120	73-127	
Silver	12.50	12.79	102	80-120	73-127	
Thallium	25.00	26.89	108	80-120	73-127	
Vanadium	25.00	25.27	101	80-120	73-127	
Zinc	25.00	26.10	104	80-120	73-127	
Aluminum	25.00	26.38	106	80-120	73-127	
Calcium	25.00	28.75	115	80-120	73-127	
Iron	25.00	26.59	106	80-120	73-127	
Magnesium	25.00	26.28	105	80-120	73-127	
Manganese	25.00	26.12	104	80-120	73-127	
Potassium	250.0	283.1	113	80-120	73-127	
Sodium	250.0	270.1	108	80-120	73-127	
Strontium	25.00	27.59	110	80-120	73-127	
Titanium	25.00	25.86	103	80-120	73-127	
Boron	25.00	23.90	96	80-120	73-127	
Silicon	25.00	26.88	108	80-120	73-127	
Sulfur, Total	25.00	26.01	104	80-120	73-127	

Total number of LCS compounds: 29
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Aliso Canyon / 603287.048			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-2072	**LCS**	**Solid**	**Mercury 05**	**04/21/16**	**04/21/16 17:15**	**160421L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7827	94	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1366
Irvine, CA 92614-6009		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Aliso Canyon / 603287.048			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3586	**LCS**	**Solid**	**GC/MS CCC**	**04/21/16**	**04/21/16 23:11**	**160421L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	8.090	81	51-123	39-135	
Acenaphthylene	10.00	7.557	76	52-120	41-131	
Butyl Benzyl Phthalate	10.00	8.895	89	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	8.379	84	55-121	44-132	
2-Chlorophenol	10.00	8.775	88	58-124	47-135	
1,4-Dichlorobenzene	10.00	7.754	78	42-132	27-147	
Dimethyl Phthalate	10.00	7.800	78	51-123	39-135	
2,4-Dinitrotoluene	10.00	9.829	98	51-129	38-142	
Fluorene	10.00	7.601	76	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	9.325	93	40-136	24-152	
Naphthalene	10.00	7.802	78	32-146	13-165	
4-Nitrophenol	10.00	6.445	64	24-126	7-143	
Pentachlorophenol	10.00	4.536	45	23-131	5-149	
Phenol	10.00	8.266	83	40-130	25-145	
Pyrene	10.00	8.728	87	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	8.381	84	45-129	31-143	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-779-1784	**LCS**	**Solid**	**GC/MS W**	**04/21/16**	**04/21/16 16:46**	**160421L020**
099-12-779-1784	**LCSD**	**Solid**	**GC/MS W**	**04/21/16**	**04/21/16 17:12**	**160421L020**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.12	100	49.62	99	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	72.93	146	74.16	148	65-137	53-149	2	0-20	ME
Chlorobenzene	50.00	49.54	99	48.57	97	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	58.14	116	57.39	115	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	48.82	98	47.69	95	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	47.57	95	47.54	95	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	53.95	108	53.70	107	68-128	58-138	0	0-20	
Ethylbenzene	50.00	50.20	100	50.13	100	80-120	73-127	0	0-20	
Toluene	50.00	50.64	101	50.49	101	80-120	73-127	0	0-20	
Trichloroethene	50.00	51.26	103	50.72	101	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	45.04	90	44.45	89	67-127	57-137	1	0-20	
p/m-Xylene	100.0	101.3	101	100.1	100	75-125	67-133	1	0-25	
o-Xylene	50.00	51.19	102	50.83	102	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.17	102	51.07	102	70-124	61-133	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	267.5	107	253.9	102	73-121	65-129	5	0-20	
Diisopropyl Ether (DIPE)	50.00	51.49	103	51.45	103	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	58.95	118	59.99	120	70-124	61-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	53.06	106	53.87	108	74-122	66-130	2	0-20	
Ethanol	500.0	432.2	86	375.8	75	51-135	37-149	14	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-779-1785	**LCS**	**Solid**	**GC/MS W**	**04/21/16**	**04/21/16 16:46**	**160421L032**
099-12-779-1785	**LCSD**	**Solid**	**GC/MS W**	**04/21/16**	**04/21/16 17:12**	**160421L032**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.12	100	49.62	99	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	72.93	146	74.16	148	65-137	53-149	2	0-20	ME
Chlorobenzene	50.00	49.54	99	48.57	97	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	58.14	116	57.39	115	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	48.82	98	47.69	95	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	47.57	95	47.54	95	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	53.95	108	53.70	107	68-128	58-138	0	0-20	
Ethylbenzene	50.00	50.20	100	50.13	100	80-120	73-127	0	0-20	
Toluene	50.00	50.64	101	50.49	101	80-120	73-127	0	0-20	
Trichloroethene	50.00	51.26	103	50.72	101	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	45.04	90	44.45	89	67-127	57-137	1	0-20	
p/m-Xylene	100.0	101.3	101	100.1	100	75-125	67-133	1	0-25	
o-Xylene	50.00	51.19	102	50.83	102	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.17	102	51.07	102	70-124	61-133	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	267.5	107	253.9	102	73-121	65-129	5	0-20	
Diisopropyl Ether (DIPE)	50.00	51.49	103	51.45	103	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	58.95	118	59.99	120	70-124	61-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	53.06	106	53.87	108	74-122	66-130	2	0-20	
Ethanol	500.0	432.2	86	375.8	75	51-135	37-149	14	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1366
Preparation: EPA 5035
Method: GC/MS / EPA 8260B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-779-1786	**LCS**	**Solid**	**GC/MS W**	**04/22/16**	**04/22/16 10:35**	**160422L009**
099-12-779-1786	**LCSD**	**Solid**	**GC/MS W**	**04/22/16**	**04/22/16 11:02**	**160422L009**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.48	103	50.10	100	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	84.06	168	78.32	157	65-137	53-149	7	0-20	X
Chlorobenzene	50.00	50.71	101	48.94	98	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	58.62	117	58.84	118	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	49.78	100	48.64	97	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	48.35	97	47.04	94	80-120	73-127	3	0-20	
1,1-Dichloroethene	50.00	55.92	112	53.50	107	68-128	58-138	4	0-20	
Ethylbenzene	50.00	52.79	106	50.20	100	80-120	73-127	5	0-20	
Toluene	50.00	52.59	105	50.90	102	80-120	73-127	3	0-20	
Trichloroethene	50.00	53.95	108	51.46	103	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	55.67	111	56.10	112	67-127	57-137	1	0-20	
p/m-Xylene	100.0	105.8	106	100.9	101	75-125	67-133	5	0-25	
o-Xylene	50.00	53.30	107	51.42	103	75-125	67-133	4	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.75	103	52.18	104	70-124	61-133	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	288.3	115	284.3	114	73-121	65-129	1	0-20	
Diisopropyl Ether (DIPE)	50.00	51.28	103	50.36	101	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	60.60	121	62.02	124	70-124	61-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	57.56	115	56.43	113	74-122	66-130	2	0-20	
Ethanol	500.0	462.7	93	432.5	86	51-135	37-149	7	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-1366 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	868	Mercury 05	1
EPA 8015B (M)	EPA 3550B	974	GC 46	1
EPA 8270C	EPA 3545	923	GC/MS CCC	1
GC/MS / EPA 8260B	EPA 5035	626	GC/MS W	2
GC/MS / EPA 8260B	EPA 5035	927	GC/MS W	2

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Glossary of Terms and Qualifiers

Work Order: 16-04-1366 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: **16-04-1366**

DATE: 4/20/16
PAGE: 1 OF 1

LABORATORY CLIENT: Leighton Consulting, Inc.
ADDRESS: 17781 Cowan
CITY: Irvine STATE: CA ZIP: 92614
TEL: 949-681-4208 E-MAIL: mchurch@leightongroup.com

CLIENT PROJECT NAME / NO.: Aliso Canyon
P.O. NO.: 603887.048 mc
PROJECT CONTACT: [redacted]
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Meredith Church Wallace Somers

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD: ☒ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
J Flag results
SS25-SS-1 - sample from Jar 2 of 2
others - SS2, SS4, + SS1-SS-1 can be from either Jar

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE (mc)	SAMPLING TIME	MATRIX	NO. OF CONT. (Soil/Kit Jars / VOAs)	Unpreserved	Preserved (All are 5035 preserved)	Field Filtered	☐ TPH(g) ☒ GRO 5035/8260	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X (+ Sn) (Sn compound)	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	
1	[redacted]	~~4/20/16 15:00~~	15:00	Soil	2+5				✓		✓			✓	✓		✓				✓		Downgrad Downgradient, by pipe
2		4/20/16	16:10	Soil	2+5				✓		✓			✓	✓		✓				✓		Downgradient, dendy assessment
3		4/20/16	16:00	"Product"	1+5				✓		✓			✓	✓		✓				✓		Product on Yucca Plant
4		4/20/16	17:15	Soil/Product	2+5				✓		✓			✓	✓		✓				✓		Directly NE of SS25
5		4/20/16	17:30	Soil/Product	1+5				✓		✓			✓	✓		✓				✓		Directly SW of SS25
6		4/20/16	17:35	Soil/Product	1+5				✓		✓			✓	✓		✓				✓		" "
7		4/20/16	18:00	"Product"	1+5				✓		✓			✓	✓		✓				✓		Product scraped off surface
8		4/20/16	18:50	Soil	2+5				✓		✓			✓	✓		✓				✓		upWind

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Meredith Church 4/21/16 1138	[signature] LCY	4/21/16	1138
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2015-05-13 Revision

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WORK ORDER NUMBER: 16-04- 1366

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Leighton Consulting, Inc.

DATE: 04 / 21 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 836

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 836

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☑ TerraCores® (5) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 778

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WORK ORDER NUMBER: 16-04-1365

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: Aliso Canyon / 603287.048

Attention: Meredith Church
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 04/26/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

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Work Order Number: 16-04-1365

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Work Order Narrative

Work Order: 16-04-1365 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/21/16. They were assigned to Work Order 16-04-1365.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1365
Irvine, CA 92614-6009		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: Aliso Canyon / 603287.048			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1365-1-J**	**04/20/16 18:20**	**Aqueous**	**GC 45**	**04/21/16**	**04/22/16 13:25**	**160421B05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	100	32	1.00	
C7	ND	100	32	1.00	
C8	ND	100	32	1.00	
C9-C10	ND	100	32	1.00	
C11-C12	ND	100	32	1.00	
C13-C14	ND	100	32	1.00	
C15-C16	ND	100	32	1.00	
C17-C18	ND	100	32	1.00	
C19-C20	ND	100	32	1.00	
C21-C22	ND	100	32	1.00	
C23-C24	ND	100	32	1.00	
C25-C28	ND	100	32	1.00	
C29-C32	ND	100	32	1.00	
C33-C36	ND	100	32	1.00	
C37-C40	ND	100	32	1.00	
C41-C44	ND	100	32	1.00	
C6-C44 Total	ND	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**099-15-498-361**	**N/A**	**Aqueous**	**GC 45**	**04/21/16**	**04/22/16 12:36**	**160421B05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
C6	ND	100	32	1.00	
C7	ND	100	32	1.00	
C8	ND	100	32	1.00	
C9-C10	ND	100	32	1.00	
C11-C12	ND	100	32	1.00	
C13-C14	ND	100	32	1.00	
C15-C16	ND	100	32	1.00	
C17-C18	ND	100	32	1.00	
C19-C20	ND	100	32	1.00	
C21-C22	ND	100	32	1.00	
C23-C24	ND	100	32	1.00	
C25-C28	ND	100	32	1.00	
C29-C32	ND	100	32	1.00	
C33-C36	ND	100	32	1.00	
C37-C40	ND	100	32	1.00	
C41-C44	ND	100	32	1.00	
C6-C44 Total	ND	100	32	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1365-1-I**	**04/20/16 18:20**	**Aqueous**	**ICP 7300**	**04/21/16**	**04/22/16 12:07**	**160421LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	0.00458	0.0100	0.00438	1.00	J
Barium	ND	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	0.00326	0.0100	0.00267	1.00	J
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	ND	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.00766	0.0150	0.00699	1.00	J
Silver	ND	0.00500	0.00139	1.00	
Thallium	0.00391	0.0150	0.00291	1.00	J
Vanadium	ND	0.0100	0.00244	1.00	
Sulfur, Total	0.0357	0.100	0.00928	1.00	B,J
Zinc	0.00494	0.0100	0.00352	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**097-01-003-15809**	**N/A**	**Aqueous**	**ICP 7300**	**04/21/16**	**04/25/16 15:26**	**160421LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	ND	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	ND	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	ND	0.0150	0.00699	1.00	
Silver	ND	0.00500	0.00139	1.00	
Thallium	ND	0.0150	0.00291	1.00	
Vanadium	ND	0.0100	0.00244	1.00	
Sulfur, Total	0.0206	0.100	0.00928	1.00	J
Zinc	ND	0.0100	0.00352	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 7470A Total
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1365-1-I**	**04/20/16 18:20**	**Aqueous**	**Mercury 04**	**04/22/16**	**04/22/16 20:54**	**160422LA1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-7840**	**N/A**	**Aqueous**	**Mercury 04**	**04/22/16**	**04/22/16 20:11**	**160422LA1**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1365-1-K**	**04/20/16 18:20**	**Aqueous**	**GC/MS CCC**	**04/21/16**	**04/22/16 12:51**	**160421L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1365
Irvine, CA 92614-6009	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: Aliso Canyon / 603287.048		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	33-120	
2-Fluorophenol	44	24-120	
Nitrobenzene-d5	86	38-120	
p-Terphenyl-d14	103	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	92	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**095-01-003-4209**	**N/A**	**Aqueous**	**GC/MS CCC**	**04/21/16**	**04/22/16 12:12**	**160421L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1365
Irvine, CA 92614-6009	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: Aliso Canyon / 603287.048		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	33-120	
2-Fluorophenol	56	24-120	
Nitrobenzene-d5	97	38-120	
p-Terphenyl-d14	101	41-137	
Phenol-d6	37	16-120	
2,4,6-Tribromophenol	96	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received:	04/21/16
Work Order:	16-04-1365
Preparation:	EPA 5030C
Method:	GC/MS / EPA 8260B
Units:	ug/L

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1365-1-A**	**04/20/16 18:20**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/22/16 02:49**	**160421L031**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Aliso Canyon / 603287.048

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
Gasoline Range Organics (C4-C12)	ND	50	30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1365
Irvine, CA 92614-6009		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
		Units:	ug/L
Project: Aliso Canyon / 603287.048			Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	109	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	95	88-112	
1,4-Bromofluorobenzene	94	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1365
Irvine, CA 92614-6009		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
		Units:	ug/L
Project: Aliso Canyon / 603287.048			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**16-04-1365-3-A**	**04/20/16 00:00**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/22/16 02:22**	**160421L031**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
Gasoline Range Organics (C4-C12)	ND	50	30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1365
Irvine, CA 92614-6009		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
		Units:	ug/L
Project: Aliso Canyon / 603287.048			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	105	80-120	
Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	96	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Aliso Canyon / 603287.048

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
[redacted]	**099-12-767-7362**	**N/A**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/21/16 23:12**	**160421L031**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
Gasoline Range Organics (C4-C12)	ND	50	30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leighton Consulting, Inc.	Date Received:	04/21/16
17781 Cowan, Suite 140	Work Order:	16-04-1365
Irvine, CA 92614-6009	Preparation:	EPA 5030C
	Method:	GC/MS / EPA 8260B
	Units:	ug/L
Project: Aliso Canyon / 603287.048		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	95	88-112	
1,4-Bromofluorobenzene	94	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3010A Total
Method: EPA 6010B
Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-04-1329-3	**Sample**	**Aqueous**	**ICP 7300**	**04/21/16**	**04/25/16 15:44**	**160421SA4A**
16-04-1329-3	**Matrix Spike**	**Aqueous**	**ICP 7300**	**04/21/16**	**04/25/16 15:45**	**160421SA4A**
16-04-1329-3	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**04/21/16**	**04/25/16 15:46**	**160421SA4A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.4929	99	0.4990	100	72-132	1	0-10	
Arsenic	0.01016	0.5000	0.5256	103	0.5332	105	80-140	1	0-11	
Barium	0.09444	0.5000	0.4953	80	0.5104	83	87-123	3	0-6	3
Beryllium	ND	0.5000	0.5147	103	0.5100	102	89-119	1	0-8	
Cadmium	ND	0.5000	0.4723	94	0.4819	96	82-124	2	0-7	
Chromium	ND	0.5000	0.4828	97	0.4875	97	86-122	1	0-8	
Cobalt	ND	0.5000	0.4613	92	0.4676	94	83-125	1	0-7	
Copper	ND	0.5000	0.4762	95	0.4830	97	78-126	1	0-7	
Lead	ND	0.5000	0.4626	93	0.4708	94	84-120	2	0-7	
Molybdenum	ND	0.5000	0.4889	98	0.4965	99	78-126	2	0-7	
Nickel	0.01893	0.5000	0.4855	93	0.4939	95	84-120	2	0-7	
Selenium	ND	0.5000	0.4850	97	0.4889	98	79-127	1	0-9	
Silver	ND	0.2500	0.2069	83	0.2136	85	86-128	3	0-7	3
Thallium	ND	0.5000	0.4760	95	0.4859	97	79-121	2	0-8	
Vanadium	ND	0.5000	0.4825	97	0.4874	97	88-118	1	0-7	
Sulfur, Total	144.2	0.5000	147.2	4X	151.4	4X	80-120	4X	0-20	Q
Zinc	ND	0.5000	0.4845	97	0.4927	99	89-131	2	0-8	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 7470A Total
Method: EPA 7470A
Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-04-1335-1	**Sample**	**Aqueous**	**Mercury 04**	**04/22/16**	**04/22/16 20:16**	**160422SA1**
16-04-1335-1	**Matrix Spike**	**Aqueous**	**Mercury 04**	**04/22/16**	**04/22/16 20:22**	**160422SA1**
16-04-1335-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**04/22/16**	**04/22/16 20:25**	**160422SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.008345	83	0.007875	79	55-133	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-04-1413-1	**Sample**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/21/16 23:41**	**160421S015**
16-04-1413-1	**Matrix Spike**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/22/16 00:08**	**160421S015**
16-04-1413-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/22/16 00:35**	**160421S015**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.51	101	51.59	103	74-122	2	0-21	
Carbon Tetrachloride	ND	50.00	52.61	105	51.07	102	60-144	3	0-21	
Chlorobenzene	ND	50.00	51.97	104	53.35	107	73-120	3	0-22	
1,2-Dibromoethane	ND	50.00	50.54	101	51.81	104	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	50.68	101	51.98	104	70-120	3	0-26	
1,2-Dichloroethane	ND	50.00	48.21	96	50.13	100	64-142	4	0-20	
1,1-Dichloroethene	ND	50.00	50.63	101	54.63	109	52-136	8	0-21	
Ethylbenzene	ND	50.00	54.24	108	55.15	110	77-125	2	0-24	
Toluene	ND	50.00	52.87	106	55.31	111	72-126	5	0-23	
Trichloroethene	ND	50.00	52.26	105	52.32	105	74-128	0	0-22	
Vinyl Chloride	ND	50.00	67.16	134	73.93	148	67-133	10	0-20	3
p/m-Xylene	1.118	100.0	107.6	106	109.9	109	63-129	2	0-25	
o-Xylene	ND	50.00	54.85	110	55.71	111	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	44.62	89	47.48	95	68-134	6	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	258.2	103	270.5	108	65-143	5	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	49.78	100	51.68	103	61-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	39.60	79	42.45	85	64-136	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	38.89	78	42.09	84	67-133	8	0-20	
Ethanol	ND	500.0	553.3	111	639.5	128	34-178	14	0-58	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8015B (M)
Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-498-361	**LCS**	**Aqueous**	**GC 45**	**04/21/16**	**04/22/16 12:53**	**160421B05**
099-15-498-361	**LCSD**	**Aqueous**	**GC 45**	**04/21/16**	**04/22/16 13:09**	**160421B05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	4451	111	4641	116	75-117	4	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1365
Irvine, CA 92614-6009		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Aliso Canyon / 603287.048			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-15809	**LCS**	**Aqueous**	**ICP 7300**	**04/21/16**	**04/25/16 15:30**	**160421LA4**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.4683	94	80-120	73-127	
Arsenic	0.5000	0.4945	99	80-120	73-127	
Barium	0.5000	0.4712	94	80-120	73-127	
Beryllium	0.5000	0.5124	102	80-120	73-127	
Cadmium	0.5000	0.5036	101	80-120	73-127	
Chromium	0.5000	0.5058	101	80-120	73-127	
Cobalt	0.5000	0.5174	103	80-120	73-127	
Copper	0.5000	0.4872	97	80-120	73-127	
Lead	0.5000	0.5133	103	80-120	73-127	
Molybdenum	0.5000	0.4903	98	80-120	73-127	
Nickel	0.5000	0.5262	105	80-120	73-127	
Selenium	0.5000	0.4894	98	80-120	73-127	
Silver	0.2500	0.2230	89	80-120	73-127	
Thallium	0.5000	0.5189	104	80-120	73-127	
Vanadium	0.5000	0.4824	96	80-120	73-127	
Sulfur, Total	0.5000	0.5225	105	80-120	73-127	
Zinc	0.5000	0.5067	101	80-120	73-127	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Leighton Consulting, Inc.		Date Received:	04/21/16
17781 Cowan, Suite 140		Work Order:	16-04-1365
Irvine, CA 92614-6009		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Aliso Canyon / 603287.048			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-7840	**LCS**	**Aqueous**	**Mercury 04**	**04/22/16**	**04/22/16 20:13**	**160422LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.008332	83	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4209	**LCS**	**Aqueous**	**GC/MS CCC**	**04/21/16**	**04/22/16 11:16**	**160421L04**
095-01-003-4209	**LCSD**	**Aqueous**	**GC/MS CCC**	**04/21/16**	**04/22/16 11:54**	**160421L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	187.1	94	198.0	99	61-120	51-130	6	0-20	
Acenaphthylene	200.0	171.6	86	183.7	92	55-120	44-131	7	0-20	
Butyl Benzyl Phthalate	200.0	223.4	112	229.1	115	56-122	45-133	3	0-20	
4-Chloro-3-Methylphenol	200.0	191.5	96	199.5	100	52-120	41-131	4	0-20	
2-Chlorophenol	200.0	193.7	97	200.6	100	47-120	35-132	4	0-20	
1,4-Dichlorobenzene	200.0	176.3	88	182.3	91	36-120	22-134	3	0-20	
Dimethyl Phthalate	200.0	184.0	92	196.7	98	60-120	50-130	7	0-20	
2,4-Dinitrotoluene	200.0	215.1	108	233.2	117	61-121	51-131	8	0-20	
Fluorene	200.0	174.6	87	185.5	93	67-120	58-129	6	0-20	
N-Nitroso-di-n-propylamine	200.0	211.7	106	226.7	113	39-123	25-137	7	0-20	
Naphthalene	200.0	175.1	88	182.1	91	54-120	43-131	4	0-20	
4-Nitrophenol	200.0	105.8	53	110.3	55	14-120	0-138	4	0-20	
Pentachlorophenol	200.0	136.6	68	141.3	71	31-127	15-143	3	0-20	
Phenol	200.0	115.2	58	120.1	60	17-120	0-137	4	0-20	
Pyrene	200.0	211.4	106	216.0	108	58-124	47-135	2	0-20	
1,2,4-Trichlorobenzene	200.0	182.2	91	191.8	96	49-120	37-132	5	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leighton Consulting, Inc.
17781 Cowan, Suite 140
Irvine, CA 92614-6009

Project: Aliso Canyon / 603287.048

Date Received: 04/21/16
Work Order: 16-04-1365
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-7362	**LCS**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/21/16 21:52**	**160421L031**
099-12-767-7362	**LCSD**	**Aqueous**	**GC/MS R**	**04/21/16**	**04/21/16 22:19**	**160421L031**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.81	98	N/A	N/A	80-120	73-127	N/A	0-20	
Carbon Tetrachloride	50.00	49.51	99	N/A	N/A	67-139	55-151	N/A	0-20	
Chlorobenzene	50.00	50.20	100	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.88	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.19	100	N/A	N/A	63-129	52-140	N/A	0-20	
1,2-Dichloroethane	50.00	49.09	98	N/A	N/A	70-130	60-140	N/A	0-20	
1,1-Dichloroethene	50.00	53.01	106	N/A	N/A	66-126	56-136	N/A	0-20	
Ethylbenzene	50.00	50.04	100	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	50.22	100	N/A	N/A	80-120	73-127	N/A	0-20	
Trichloroethene	50.00	50.10	100	N/A	N/A	80-122	73-129	N/A	0-20	
Vinyl Chloride	50.00	52.49	105	N/A	N/A	70-130	60-140	N/A	0-20	
p/m-Xylene	100.0	99.11	99	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	50.95	102	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.92	94	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	261.4	105	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	49.24	98	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	42.36	85	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	41.67	83	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	656.7	131	N/A	N/A	42-168	21-189	N/A	0-20	
Gasoline Range Organics (C4-C12)	1000	1040	104	1050	105	65-135	53-147	1	0-30	

Total number of LCS compounds: 20
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-04-1365 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	935	ICP 7300	1
EPA 7470A	EPA 7470A Total	868	Mercury 04	1
EPA 8015B (M)	EPA 3510C	974	GC 45	1
EPA 8270C	EPA 3510C	923	GC/MS CCC	1
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS R	2

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Glossary of Terms and Qualifiers

Work Order: 16-04-1365 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: 4/20/16
PAGE: 1 OF 1

WO NO. / LAB USE ONLY
16-04-1365

LABORATORY CLIENT: Leighton Consulting Inc
ADDRESS: 17781 Cowan
CITY: Irvine STATE: CA ZIP: 92614
TEL: 949-250-1420 [redacted]

CLIENT PROJECT NAME / NO.: Aliso Canyon
P.O. NO.: 603287.048 mc
PROJECT CONTACT: Meredith Church
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Meredith Church, Wallace Sconiers

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:
☒ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	[redacted]	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260) 7 ERG C4-C12 Toxy (8260 mc	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X Silica	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
1		4/20/16	18:20	water	mc ~~12~~ 11 multiple						✓			✓			✓				✓					
2		4/20/16	20:10	water	~~12~~ 11 multiple																		hold			
3		4/20/16	—	water	2									✓												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Meredith Church 4/21/16 11:35	[signature]	4/21/16	1135
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2015-05-13 Revision

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WORK ORDER NUMBER: 16-04- 1365

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Leighton Consulting Inc.

DATE: 04 / 21 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 2.6 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 836

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 836

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 160412B)

Aqueous: ☐ VOA ☑ VOA**h** 8 ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☑ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: TB

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Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 16-04-1366

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leighton Consulting, Inc.

Client Project Name: Aliso Canyon / 603287.048

Attention: Meredith Church
17781 Cowan
Suite 140
Irvine, CA 92614-6009

Nicole Scott

Approved for release on 05/10/2016 by:
Nicole Scott
Project Manager

ResultLink

Email your PM

nelac

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Work Order Number: 16-04-1366

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5 Chain-of-Custody/Sample Receipt Form. 27

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Work Order Narrative

Work Order: 16-04-1366 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 04/21/16. They were assigned to Work Order 16-04-1366.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR023.D
Acq On : 21 Apr 2016 6:05 pm
Operator : 927
Sample : MB PB0T42116-4A
Misc : V033116A V06-90-23
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,3,5-Triazaada...	1.354	267.6	ug/l	251228	1	3.678	234694	250.0
Carbon dioxide	1.403	899.2	ug/l	844149	1	3.678	234694	250.0
Isobutane	1.680	66.1	ug/l	62009	1	3.678	234694	250.0
Butane, 2-methyl-	2.301	29.3	ug/l	27530	1	3.678	234694	250.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR024.D
Acq On : 21 Apr 2016 6:32 pm
Operator : 927
Sample : MB MEOH 042116-4D
Misc : V033116A V06-95-08
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethanamine, 2-c...	1.354	186.1	ug/l	187911	1	3.684	252446	250.0
Carbon dioxide	1.403	834.0	ug/l	842195	1	3.684	252446	250.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR026.D
Acq On : 21 Apr 2016 7:25 pm
Operator : 927
Sample : 16-04-1366-1D 4.96g
Misc : V033116A
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Piperazine-1-ca...	1.360	133.3	ug/l	258938	1	3.684	485582	250.0
Carbon dioxide	1.403	797.7	ug/l	1549480	1	3.684	485582	250.0
Acetaldehyde	1.909	35.3	ug/l	68510	1	3.684	485582	250.0
Propanal	2.960	26.7	ug/l	51902	1	3.684	485582	250.0
Hexanal	9.911	19.5	ug/l	746715	4	10.663	1918560	50.0
Dodecane	16.814	5.2	ug/l	185186	5	13.531	1768090	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR027.D
Acq On : 21 Apr 2016 7:52 pm
Operator : 927
Sample : 16-04-1366-2D 5.00g
Misc : V033116A
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
5-Pyrimidine su...	1.359	152.5	ug/l	258163	1	3.678	423224	250.0
Carbon dioxide	1.403	1036.5	ug/l	1754700	1	3.678	423224	250.0
Propene	1.534	33.8	ug/l	57301	1	3.678	423224	250.0
Acetaldehyde	1.909	70.5	ug/l	119366	1	3.678	423224	250.0
Hexanal	9.917	11.4	ug/l	440575	4	10.663	1930820	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR028.D
Acq On : 21 Apr 2016 8:30 pm
Operator : 927
Sample : 16-04-1366-3E 2000X 2.5UL
Misc : V033116A /4.08g/5ML
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2H-Azepin-2-one...	1.343	156.5	ug/l	119026	1	3.673	190126	250.0
Carbon dioxide	1.403	1414.2	ug/l	1075510	1	3.673	190126	250.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR029.D
Acq On : 21 Apr 2016 9:03 pm
Operator : 927
Sample : 16-04-1366-1E 5.66g
Misc : V033116A
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Carbmethoxy-3...	1.343	83.7	ug/l	116300	1	3.673	347466	250.0
Carbon dioxide	1.408	1248.8	ug/l	1735680	1	3.673	347466	250.0
Propene	1.528	79.5	ug/l	110514	1	3.673	347466	250.0
1-Propene, 2-me...	1.800	34.3	ug/l	47619	1	3.673	347466	250.0
Acetaldehyde	1.909	48.5	ug/l	67455	1	3.673	347466	250.0
Cyclopropyl met...	2.960	34.7	ug/l	48219	1	3.673	347466	250.0
Hexanal	9.911	19.0	ug/l	752725	4	10.662	1979790	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR030.D
Acq On : 21 Apr 2016 9:30 pm
Operator : 927
Sample : 16-04-1366-3E 50X 100UL
Misc : V033116A /4.08g/5ML
ALS Vial : 30 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,2-Oxathiane, ...	1.349	182.5	ug/l	186484	1	3.733	255390	250.0
Carbon dioxide	1.398	930.1	ug/l	950166	1	3.733	255390	250.0
Ethyl alcohol	1.670	29.7	ug/l	30370	1	3.733	255390	250.0
Acetaldehyde	1.904	43.3	ug/l	44196	1	3.733	255390	250.0
Acetic acid, me...	3.488	644.3	ug/l	658145	1	3.733	255390	250.0
Propanal, 2-met...	4.256	46.9	ug/l	47921	1	3.733	255390	250.0
2-Heptanone, 6-...	12.688	7.3	ug/l	273308	5	13.537	1863560	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR031.D
Acq On : 21 Apr 2016 10:06 pm
Operator : 927
Sample : 16-04-1366-2G 5.07g
Misc : V033116A
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
n-Propyl chloride	1.343	105.6	ug/l	175028	1	3.678	414444	250.0
Carbon dioxide	1.403	1189.1	ug/l	1971330	1	3.678	414444	250.0
Propene	1.528	35.1	ug/l	58156	1	3.678	414444	250.0
Acetaldehyde	1.909	80.8	ug/l	133984	1	3.678	414444	250.0
Hexanal	9.917	9.1	ug/l	356903	4	10.663	1968810	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR033.D
Acq On : 21 Apr 2016 10:59 pm
Operator : 927
Sample : 16-04-1366-4F 50X 100UL
Misc : V033116A /4.60g/5ML
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbon dioxide	1.398	403.0	ug/l	1058910	1	3.722	656820	250.0
Naphthalene, 2-...	17.679	856.6	ug/l	34118700	5	13.531	1991500	50.0
Naphthalene, 2-...	17.870	386.2	ug/l	15383300	5	13.531	1991500	50.0
Biphenyl	18.376	154.1	ug/l	6138060	5	13.531	1991500	50.0
Naphthalene, 1-...	18.539	275.3	ug/l	10964100	5	13.531	1991500	50.0
Naphthalene, 1,...	18.637	491.0	ug/l	19556700	5	13.531	1991500	50.0
Naphthalene, 2,...	18.757	355.8	ug/l	14169500	5	13.531	1991500	50.0
Naphthalene, 2,...	18.790	269.7	ug/l	10741000	5	13.531	1991500	50.0
Naphthalene, 1,...	18.942	191.0	ug/l	7608860	5	13.531	1991500	50.0
1,1-Diphenyl-2-...	19.149	139.3	ug/l	5549360	5	13.531	1991500	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160421\
Data File : 21APR034.D
Acq On : 21 Apr 2016 11:25 pm
Operator : 927
Sample : 16-04-1366-5E 50X 100UL
Misc : V033116A /4.92g/5ML
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbon dioxide	1.398	383.6	ug/l	1077150	1	3.733	702042	250.0
Benzocyclohepta...	17.685	1508.7	ug/l	63546600	5	13.531	2106050	50.0
Naphthalene, 2-...	17.870	717.2	ug/l	30209000	5	13.531	2106050	50.0
1,3-Cyclohexadi...	18.376	428.8	ug/l	18060200	5	13.531	2106050	50.0
Naphthalene, 1-...	18.539	523.3	ug/l	22042300	5	13.531	2106050	50.0
Naphthalene, 1,...	18.637	943.1	ug/l	39722900	5	13.531	2106050	50.0
Naphthalene, 2,...	18.752	601.4	ug/l	25331700	5	13.531	2106050	50.0
Naphthalene, 2,...	18.784	530.6	ug/l	22349600	5	13.531	2106050	50.0
Naphthalene, 1,...	18.937	330.3	ug/l	13910700	5	13.531	2106050	50.0
1,1-Diphenyl-2-...	19.144	226.9	ug/l	9558470	5	13.531	2106050	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160422\
Data File : 22APR010.D
Acq On : 22 Apr 2016 12:22 pm
Operator : 927
Sample : MB MEOH 042016-3D
Misc : V033116A
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
4-Dimethylamino...	1.354	318.3	ug/l	239813	1	3.678	188370	250.0
Carbon dioxide	1.403	1381.6	ug/l	1041020	1	3.678	188370	250.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160422\
Data File : 22APR011.D
Acq On : 22 Apr 2016 12:48 pm
Operator : 927
Sample : 16-04-1366-5E 100x E 50uL
Misc : V033116A 4.92g/5mL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbon dioxide	1.403	250.0	ug/l	944272	1	3.705	944272	250.0
Naphthalene, 2-...	17.679	1063.2	ug/l	45191300	5	13.531	2125310	50.0
Naphthalene, 2-...	17.869	486.4	ug/l	20675400	5	13.531	2125310	50.0
1,3-Cyclohexadi...	18.370	340.1	ug/l	14455700	5	13.531	2125310	50.0
Naphthalene, 1-...	18.534	426.6	ug/l	18131800	5	13.531	2125310	50.0
Naphthalene, 1,...	18.626	788.9	ug/l	33534400	5	13.531	2125310	50.0
Naphthalene, 2,...	18.746	550.0	ug/l	23379000	5	13.531	2125310	50.0
Naphthalene, 1,...	18.773	402.7	ug/l	17116000	5	13.531	2125310	50.0
Naphthalene, 1,...	18.926	319.6	ug/l	13584100	5	13.531	2125310	50.0
1,1-Diphenyl-2-...	19.132	201.1	ug/l	8548410	5	13.531	2125310	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160422\
Data File : 22APR012.D
Acq On : 22 Apr 2016 1:15 pm
Operator : 927
Sample : 16-04-1366-6E 500x 10uL
Misc : V033116A 3.52g/5mL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
N-Methyl-10-hyd...	1.343	94.4	ug/l	110112	1	3.684	291656	250.0
Carbon dioxide	1.403	847.9	ug/l	989147	1	3.684	291656	250.0
Naphthalene, 2-...	17.679	117.9	ug/l	5235100	5	13.531	2220200	50.0
Naphthalene, 1-...	18.534	90.0	ug/l	3998220	5	13.531	2220200	50.0
Naphthalene, 1,...	18.621	180.2	ug/l	8000030	5	13.531	2220200	50.0
Naphthalene, 2,...	18.741	126.0	ug/l	5593330	5	13.531	2220200	50.0
Naphthalene, 1,...	18.773	105.0	ug/l	4661430	5	13.531	2220200	50.0
Naphthalene, 2,...	18.926	80.0	ug/l	3553760	5	13.531	2220200	50.0
1,1-Diphenyl-2-...	19.133	78.0	ug/l	3463950	5	13.531	2220200	50.0
Naphthalene, 1,...	19.906	84.9	ug/l	3769050	5	13.531	2220200	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_W_DATA\2016\160422\
Data File : 22APR013.D
Acq On : 22 Apr 2016 1:41 pm
Operator : 927
Sample : 16-04-1366-7E 200x 25uL
Misc : V033116A 5.11g/5mL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160415A_S.M
Quant Title : EPA 8260B/8260C

TIC Library : C:\DATABASE\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
3H-Imidazole-4-...	1.349	216.8	ug/l	248216	1	3.689	286246	250.0
Carbon dioxide	1.403	798.2	ug/l	913922	1	3.689	286246	250.0
Acetic acid, me...	3.488	213.9	ug/l	244939	1	3.689	286246	250.0
Naphthalene, 2-...	17.679	48.7	ug/l	2074140	5	13.531	2130410	50.0
Naphthalene, 1,...	18.627	89.0	ug/l	3793700	5	13.531	2130410	50.0
Naphthalene, 2,...	18.741	77.4	ug/l	3298490	5	13.531	2130410	50.0
Naphthalene, 2,...	18.773	63.3	ug/l	2696820	5	13.531	2130410	50.0
Naphthalene, 2,...	18.926	48.1	ug/l	2049480	5	13.531	2130410	50.0
1,1-Diphenyl-2-...	19.133	47.8	ug/l	2036950	5	13.531	2130410	50.0
Naphthalene, 1,...	19.906	63.1	ug/l	2687220	5	13.531	2130410	50.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR018.D
Acq On : 21 Apr 2016 11:30 pm
Operator : 923
Sample : MB 160421L10
Misc : 10UL S7-16-7
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
3-Hexen-2-one	1.884	22.1	mg/l	859720	1	3.334	1555860	40.0
2-Pentanone, 4-...	2.120	363.5	mg/l	14138100	1	3.334	1555860	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR019.D
Acq On : 21 Apr 2016 11:48 pm
Operator : 923
Sample : 16-04-1366-1A
Misc : 10UL S7-16-7
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
2-Pentanone, 4-...	2.109	102.3	mg/l	3560590	1	3.334	1392080	40.0
Octadecane, 5,1...	11.919	9.6	mg/l	1118530	6	12.266	4642560	40.0
Docosane, 11-bu...	12.828	12.8	mg/l	1484810	6	12.266	4642560	40.0
Tetratetracontane	13.791	6.5	mg/l	749718	6	12.266	4642560	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR020.D
Acq On : 22 Apr 2016 12:06 am
Operator : 923
Sample : 16-04-1366-2A
Misc : 10UL S7-16-7
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-...	2.109	25.8	mg/l	895033	1	3.334	1389270	40.0
Tridecane, 6-pr...	12.823	5.2	mg/l	590446	6	12.266	4520500	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR023.D
Acq On : 22 Apr 2016 1:02 am
Operator : 923
Sample : 16-04-1366-3A 10X
Misc : 10UL S7-16-7
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-...	2.115	16.0	mg/l	710862	1	3.339	1776400	40.0
Pentadecane, 2,...	7.019	7.9	mg/l	712779	3	6.356	3609050	40.0
Heptadecane	7.255	12.6	mg/l	1242310	4	7.800	3942790	40.0
Dodecane, 4,6-d...	7.281	24.1	mg/l	2380070	4	7.800	3942790	40.0
Tetradecane	7.693	29.6	mg/l	2912850	4	7.800	3942790	40.0
Heptadecane, 2,...	7.741	28.3	mg/l	2786220	4	7.800	3942790	40.0
Octadecane	8.084	8.5	mg/l	837377	4	7.800	3942790	40.0
Heptadecane	8.110	48.8	mg/l	4807930	4	7.800	3942790	40.0
Pentadecane	8.367	4.8	mg/l	472570	4	7.800	3942790	40.0
1-Hexadecanesul...	8.405	6.9	mg/l	684025	4	7.800	3942790	40.0
Hexadecane	8.442	11.2	mg/l	1102740	4	7.800	3942790	40.0
Pentacosane	8.511	64.7	mg/l	6375100	4	7.800	3942790	40.0
Dodecane	8.800	10.6	mg/l	1047020	4	7.800	3942790	40.0
Octadecane	8.891	46.0	mg/l	4533330	4	7.800	3942790	40.0
Heptadecane, 2,...	9.009	6.3	mg/l	621821	4	7.800	3942790	40.0
Eicosane	9.250	22.1	mg/l	2567790	5	10.474	4654310	40.0
Heptacosane	9.603	13.4	mg/l	1553570	5	10.474	4654310	40.0
Heptacosane	9.950	9.8	mg/l	1136080	5	10.474	4654310	40.0
2-Bromo dodecane	10.309	7.5	mg/l	875887	5	10.474	4654310	40.0
Heptacosane	10.688	5.5	mg/l	638387	5	10.474	4654310	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR024.D
Acq On : 22 Apr 2016 1:20 am
Operator : 923
Sample : 16-04-1366-4A 10X FV=4ML
Misc : 10UL S7-16-7
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Tridecane	5.206	21.2	mg/l	1664040	2	4.586	3143010	40.0
Tetradecane	5.778	31.4	mg/l	4135930	3	6.356	5262870	40.0
Hexadecane, 2,6...	6.110	24.2	mg/l	3188980	3	6.356	5262870	40.0
Heneicosane	6.303	37.6	mg/l	4944730	3	6.356	5262870	40.0
Hexadecane	6.795	46.7	mg/l	6141640	3	6.356	5262870	40.0
Pentadecane, 2,...	7.025	49.2	mg/l	6477170	3	6.356	5262870	40.0
Heptadecane	7.260	74.6	mg/l	7114930	4	7.806	3814800	40.0
Dodecane, 2,6,1...	7.292	116.4	mg/l	11098600	4	7.806	3814800	40.0
9H-Fluorene, 1-...	7.463	28.2	mg/l	2690860	4	7.806	3814800	40.0
Nonadecane	7.699	90.4	mg/l	8623220	4	7.806	3814800	40.0
Hexadecane, 2,6...	7.747	83.3	mg/l	7942830	4	7.806	3814800	40.0
Pentadecane, 8-...	8.089	19.3	mg/l	1843280	4	7.806	3814800	40.0
Nonadecane	8.121	104.8	mg/l	9991050	4	7.806	3814800	40.0
Tritetracontane	8.447	26.6	mg/l	2532850	4	7.806	3814800	40.0
Heneicosane	8.517	125.8	mg/l	12000600	4	7.806	3814800	40.0
Nonadecane	8.891	84.2	mg/l	8031720	4	7.806	3814800	40.0
Heptacosane	9.255	42.5	mg/l	5063390	5	10.480	4765920	40.0
Nonacosane	9.603	28.5	mg/l	3392290	5	10.480	4765920	40.0
Octacosane	9.950	23.5	mg/l	2800190	5	10.480	4765920	40.0
Eicosane, 10-me...	10.314	20.2	mg/l	2402230	5	10.480	4765920	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR025.D
Acq On : 22 Apr 2016 1:38 am
Operator : 923
Sample : 16-04-1366-5A 10X FV=4ML
Misc : 10UL S7-16-7
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Tridecane	5.211	58.8	mg/l	6875650	2	4.591	4673480	40.0
Nonadecane	5.784	146.2	mg/l	14992600	3	6.361	4102370	40.0
Naphthalene, 1,...	5.939	53.2	mg/l	5460790	3	6.361	4102370	40.0
Naphthalene, 2,...	6.024	55.9	mg/l	5737580	3	6.361	4102370	40.0
Naphthalene, 1,...	6.046	40.8	mg/l	4189190	3	6.361	4102370	40.0
Heptadecane, 2,...	6.115	105.2	mg/l	10789700	3	6.361	4102370	40.0
Naphthalene, 2,...	6.602	43.6	mg/l	4466810	3	6.361	4102370	40.0
Hexadecane	6.805	149.1	mg/l	15287400	3	6.361	4102370	40.0
Heptacosane	7.035	145.8	mg/l	14950600	3	6.361	4102370	40.0
Heptadecane	7.271	158.4	mg/l	15047800	4	7.811	3799720	40.0
Dodecane, 4,6-d...	7.303	259.9	mg/l	24691700	4	7.811	3799720	40.0
9H-Fluorene, 1-...	7.474	66.9	mg/l	6352940	4	7.811	3799720	40.0
Nonadecane	7.709	188.0	mg/l	17859000	4	7.811	3799720	40.0
Hexadecane	7.757	167.4	mg/l	15899300	4	7.811	3799720	40.0
Eicosane, 10-me...	8.094	38.1	mg/l	3619330	4	7.811	3799720	40.0
Hexadecane	8.126	218.7	mg/l	20773500	4	7.811	3799720	40.0
Octadecane	8.453	51.7	mg/l	4906870	4	7.811	3799720	40.0
Heneicosane	8.527	259.7	mg/l	24669400	4	7.811	3799720	40.0
Tridecane, 1-iodo-	8.902	169.5	mg/l	16102300	4	7.811	3799720	40.0
Pentacosane	9.260	72.9	mg/l	8730140	5	10.480	4788060	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR026.D
Acq On : 22 Apr 2016 1:57 am
Operator : 923
Sample : 16-04-1366-6A 10X FV=4ML
Misc : 10UL S7-16-7
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Tetradecane	5.206	25.3	mg/l	2266980	2	4.591	3578600	40.0
Tetradecane	5.778	45.9	mg/l	5842910	3	6.361	5097420	40.0
Tetradecane	6.110	39.8	mg/l	5074370	3	6.361	5097420	40.0
Hexadecane	6.308	56.4	mg/l	7192580	3	6.361	5097420	40.0
Hexadecane	6.800	64.4	mg/l	8210640	3	6.361	5097420	40.0
Heptacosane	7.030	66.4	mg/l	8466320	3	6.361	5097420	40.0
Nonadecane	7.265	85.8	mg/l	9184260	4	7.811	4279950	40.0
Hexadecane, 2,6...	7.297	143.0	mg/l	15303900	4	7.811	4279950	40.0
9H-Fluorene, 2-...	7.468	32.2	mg/l	3450130	4	7.811	4279950	40.0
Tetradecane	7.704	107.9	mg/l	11541800	4	7.811	4279950	40.0
Hexadecane, 2,6...	7.752	95.6	mg/l	10231500	4	7.811	4279950	40.0
Heptadecane, 4-...	8.094	25.8	mg/l	2760740	4	7.811	4279950	40.0
Heneicosane	8.121	128.3	mg/l	13733000	4	7.811	4279950	40.0
Eicosane, 3-met...	8.447	30.6	mg/l	3270130	4	7.811	4279950	40.0
Heneicosane	8.522	158.1	mg/l	16918200	4	7.811	4279950	40.0
Pentadecane, 2,...	8.811	25.2	mg/l	2691980	4	7.811	4279950	40.0
Hentriacontane	8.896	104.4	mg/l	11169900	4	7.811	4279950	40.0
Hexadecane	9.255	46.8	mg/l	5988930	5	10.480	5117590	40.0
Hexadecane, 2,6...	9.602	26.8	mg/l	3424750	5	10.480	5117590	40.0
Octacosane	9.955	20.3	mg/l	2591280	5	10.480	5117590	40.0

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Tentatively Identified Compound (LSC) summary

Data Path : W:\GCMS_CCC\GCMS_CCC_DATA\2016\160421\
Data File : 21APR021.D
Acq On : 22 Apr 2016 12:25 am
Operator : 923
Sample : 16-04-1366-7A
Misc : 10UL S7-16-7
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\160316-BNA.M
Quant Title : BNA 8270C

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
2-Pentanone, 4-...	2.114	243.8	mg/l	11079500	1	3.339	1817560	40.0
Hexadecane	6.302	46.1	mg/l	5582900	3	6.356	4845380	40.0
Hexadecane	6.800	84.4	mg/l	10226900	3	6.356	4845380	40.0
Heptacosane	7.030	112.0	mg/l	13569300	3	6.356	4845380	40.0
Heptadecane	7.265	211.4	mg/l	16729000	4	7.811	3166060	40.0
Octadecane, 2,6...	7.297	339.9	mg/l	26902200	4	7.811	3166060	40.0
9H-Fluorene, 1-...	7.468	76.6	mg/l	6065910	4	7.811	3166060	40.0
Dodecane, 2-met...	7.709	290.1	mg/l	22965700	4	7.811	3166060	40.0
Hexadecane, 2,6...	7.757	263.3	mg/l	20841500	4	7.811	3166060	40.0
2-Phenanthrenol	8.003	43.3	mg/l	3423560	4	7.811	3166060	40.0
Heptadecane, 4-...	8.094	75.7	mg/l	5989170	4	7.811	3166060	40.0
Hexadecane	8.132	388.4	mg/l	30746000	4	7.811	3166060	40.0
Anthracene, 1-m...	8.420	55.2	mg/l	4370620	4	7.811	3166060	40.0
Sulfurous acid,...	8.453	93.6	mg/l	7406450	4	7.811	3166060	40.0
Heneicosane	8.533	503.6	mg/l	39861200	4	7.811	3166060	40.0
Dodecane	8.811	78.9	mg/l	6247920	4	7.811	3166060	40.0
Eicosane	8.907	339.7	mg/l	26885200	4	7.811	3166060	40.0
Heneicosane	9.260	127.1	mg/l	14937000	5	10.480	4702100	40.0
Heneicosane	9.608	65.0	mg/l	7643430	5	10.480	4702100	40.0
Heneicosane	9.956	53.8	mg/l	6329710	5	10.480	4702100	40.0

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Glossary of Terms and Qualifiers

Work Order: 16-04-1366 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: 4/20/16
PAGE: 1 OF 1

WO NO. / LAB USE ONLY
16-04-1366

LABORATORY CLIENT: Leighton Consulting, Inc.
ADDRESS: 17781 Cowan
CITY: Irvine STATE: CA ZIP: 92614
TEL: 949-681-4208 E-MAIL: [redacted]

CLIENT PROJECT NAME / NO.: Aliso Canyon
P.O. NO.: 603887.048 mc
PROJECT CONTACT: Meredith Church
LAB CONTACT OR QUOTE NO.:
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT) Meredith Church, Wallace Somers

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD: ☒ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
J Flag results
SS25-SS-1 - sample from Jar 2 of 2
others - SS2, SS4, + SS1-SS-1 (can be from either Jar

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT. (Soil/Kit Jars / VOAs)	Unpreserved	Preserved (All are 5035 preserved)	Field Filtered	☐ TPH(g) ☒ GRO 5035/8260	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X (compound list)	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	
1	SS25-SS-1	4/20/16 ~~15:00~~	15:00	Soil	2+5				✓		✓			✓	✓		✓				✓		Downgrad Downgradient, by pipe
2	SS25-SS-2	4/20/16	16:10	Soil	2+5				✓		✓			✓	✓		✓				✓		Downgradient, dendy assay area
3	SS25-SS-3	4/20/16	16:00	"Product"	1+5				✓		✓			✓	✓		✓				✓		Product on Yucca Plant
4	SS25-SS-4	4/20/16	17:15	Soil/Product	2+5				✓		✓			✓	✓		✓				✓		Directly NE of SS25
5	SS25-SS-5	4/20/16	17:30	Soil/Product	1+5				✓		✓			✓	✓		✓				✓		Directly SW of SS25
6	SS25-SS-5D	4/20/16	17:35	Soil/Product	1+5				✓		✓			✓	✓		✓				✓		" "
7	SS25-SS-6	4/20/16	18:00	"Product"	1+5				✓		✓			✓	✓		✓				✓		Product scraped off rock
8	mc ~~SS25~~ SS1-SS-1	4/20/16	18:50	Soil	2+5				✓		✓			✓	✓		✓				✓		upwind

Relinquished by: (Signature) Meredith Church	4/21/16	1138	Received by: (Signature/Affiliation) [signature] LCY	Date: 4/21/16	Time: 1138
Relinquished by: (Signature)			Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)			Received by: (Signature/Affiliation)	Date:	Time:

2015-05-13 Revision

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WORK ORDER NUMBER: 16-04- 1366

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Leighton Consulting, Inc.

DATE: 04 / 21 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 836

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 836

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☑ TerraCores® (5) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 778

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