

Appendix

Appendix F Phase II ESA

Appendix

This page intentionally left blank.

**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
1122 NORTH ANAHEIM BOULEVARD,
ANAHEIM, CALIFORNIA**

Prepared for

RPP Equities, LLC

4675 MacArthur Court, Suite 550
Newport Beach, California 92660

Project No. 11862.002

March 6, 2019



Leighton and Associates, Inc.

A LEIGHTON GROUP COMPANY



Leighton and Associates, Inc.
A LEIGHTON GROUP COMPANY

March 6, 2019

Project No. 11862.002

RPP Equities, LLC
4675 MacArthur Court, Suite 550
Newport Beach, California 92660

Attention: Mr. Robert Kim

**Subject: Phase II Environmental Site Assessment
1122 North Anaheim Boulevard, Anaheim, California**

INTRODUCTION

Leighton and Associates, Inc. (Leighton) is pleased to present this report summarizing the Phase II Environmental Site Assessment (ESA) activities completed for the proposed residential development located 1122 North Anaheim Boulevard in the city of Anaheim, California (site, Figure 1).

BACKGROUND

The site is approximately 4.5 acres and is currently occupied by Anaheim Fullerton Towing, who leases a portion of the site to Ecosystem Trucking. The site is developed with a small office building, an automobile and freight truck shop, an automobile storage warehouse, an employee breakroom building, an asphalt-paved impounded automobile parking lot, an unpaved freight truck parking lot, and a materials storage yard (e.g., shipping containers, truck trailer storage). Anaheim Fullerton Towing uses the site to store, maintain, and repair their company vehicles, as well as store vehicles that have been impounded by various city and police departments. Ecosystem Trucking uses the site to store/park their company vehicles (AECOM, 2017). Historical research completed by AECOM indicated that the site has been used as an automobile and freight truck storage/tow yard, maintenance and repair facility, and fueling site since at

least 1947. An oil-water separator is currently located in the automobile washing area located adjacent to the north of the main shop building (AECOM, 2017).

The site formerly operated five underground storage tanks (USTs) and associated fueling dispenser pumps. The USTs consisted of the following: one 2,000-gallon, one 10,000-gallon, and one 20,000-gallon diesel USTs and two 500-gallon waste oil USTs. The 2,000-gallon, 10,000-gallon, and two 500-gallon USTs were removed from the site in January 1999. The 20,000-gallon UST was abandoned in-place in April 1999. Soil sampling completed during tank removal/abandonment activities identified elevated concentrations of diesel-range petroleum hydrocarbons (TPHd) beneath the fuel dispensers associated with the 20,000-gallon UST. Additional assessment was completed in the vicinity of the TPHd-impacted soil identified during the tank abandonment activities and consisted of the advancement of five soil borings and the collection and analysis of 24 soil samples. Two soil samples contained elevated concentrations of TPHd (13,200 milligrams per kilogram [mg/kg] and 1,850 mg/kg). The Santa Ana Regional Water Quality Control Board (RWQCB) subsequently opened an investigation and recommended additional subsurface investigation at the site. Additional soil sampling was conducted in November 1999. Following the removal of petroleum impacted soil, the RWQCB issued regulatory case closure in 2000 (AECOM, 2017).

The property located adjacent to the east of the site was occupied by U.S. Industrial Chemicals Incorporated Anaheim Plant (a chemical plant) from at least 1938 to at least 1977. The chemical plant was developed with three steel molasses aboveground storage tank (ASTs), cooling towers, an evaporation and machine shop building, a liquid carbon and dry ice building, and additional associated buildings (AECOM, 2017).

The property located adjacent to the south of the site was formerly occupied by Regal Beloit Corporation – Electra Gear (Electra property), an automobile and truck parts manufacturer and operated multiple historical USTs on the property. Potential contaminants of concern include polychlorinated biphenyls (PCBs), motor oil, and tetrachloroethene (PCE) in soil. A soil gas survey was performed at the property in November 2017 and indicated that significant VOC impacts, specifically PCE, are present in soil gas beneath the neighboring property (AECOM, 2017).

OBJECTIVE

The purpose of the Phase II ESA was to determine what, if any, environmental impacts are present in the subsurface soil and soil gas from historic industrial uses of the site, as well as potential offsite sources, which could affect the future residential redevelopment of the site.

SCOPE OF WORK

The scope of work included the following:

- Advancement of nine initial exploratory soil borings (SB1 through SB9) to total depths between 15 and 35 feet below ground surface (bgs) and collection of soil samples for chemical analysis;
- Advancement of 14 step-out borings in the vicinity of initial borings SB6 and SB9 to total depths of 10 feet bgs and collection of soil samples for chemical analysis;
- Installation of soil gas probes in initial borings SB1 through SB6 and SB9 and collection of soil gas samples for chemical analysis; and
- Preparation of this report summarizing our findings and conclusions, including tables, illustrations, and appendices.

PHASE II ESA

Health and Safety Plan

Prior to starting work, Leighton prepared a site-specific Health and Safety Plan (HSP) to include safety aspects of the work performed at the site. The HSP was in compliance with the Occupational Safety and Health and Administration (OSHA) regulation 29 CFR 1910.120. The HSP was onsite with Leighton personnel at all times. The HSP outlined site procedures, potential hazards, and contains a hospital location map. All onsite Leighton personnel signed the HSP acknowledging acceptance.

Utility Clearance

Underground Service Alert (USA) was contacted at least 48 hours prior to the commencement of fieldwork to mark underground utility locations originating off-site from public utilities. Each proposed boring location was clearly marked in white paint prior to contacting USA.

In addition, Leighton hired Subsurface Surveys and Associates, Inc. (SSA) to complete a geophysical survey of the proposed boring locations. SSA performed a geophysical survey to assess the presence of buried magnetic, metallic, and electrically conductive features such as metal pipelines, buried tanks, debris, electrical lines, and other subsurface features in the area of the proposed borings. As part of the geophysical survey, SSA was able to confirm that the former 500-gallon waste oil USTs had been removed from the site and mark the location of the resulting excavation pit on the east side of the main shop building. Due to surface obstructions (large metals containers), SSA was unable to confirm the location, or former locations, of the diesel USTs reportedly located on the south side of the main shop building. A copy of the geophysical survey report is included in Appendix B.

Field Activities

Initial Soil Borings

On January 15, 2019, Leighton directed the advancement of seven soil borings (SB1 through SB7) to a total depth of 15 feet bgs, one soil boring (SB8) to a total depth of 25 feet bgs, and one soil boring (SB9) to a total depth on 35 feet bgs throughout the site (Figure 3). The borings were advanced using direct push drilling equipment operated by Millennium Environmental, Inc., a State of California licensed drilling contractor. Soil samples were collected at depths of 0.5, 2.5, 5.0 feet bgs and at 5-foot intervals thereafter to the total depth, for lithologic description and chemical analysis. Soil samples were logged and described under direct supervision of a licensed California Professional Geologist (PG). Soil samples were retained in either 6-inch acetate sleeves, capped with Teflon[®] paper and plastic end caps or 8-ounce laboratory-supplied glass jars. The containers were clearly marked with sample identification, placed in an ice-cooled chest for temporary storage, and transported to TestAmerica Laboratories, Inc. (TA) of Irvine, California for chemical analysis. Chain-of-custody protocol was followed throughout all phases of the sample handling process. Boring logs are included in Appendix C.

Each soil sample was field screened using a photoionization detector (PID) to evaluate the soil sample for the presence of volatile organic compound vapors. PID readings were obtained by placing an aliquot of soil collected adjacent from the portion retained for chemical analysis into a clean plastic bag and placing it in the sun or a warm area for 5 to 10 minutes. The readings were then collected from the headspace of the plastic bags by inserting the tip of the PID and recorded on the field boring logs.

Upon reaching the total depth of the borings described above, soil gas probes were installed at depths of 5 and 15 feet bgs in borings SB1 through SB6 and SB9. The soil gas probes consisted of inert 1/4-inch nylaflow tubing fitted with a porous airstone at the terminus, which was set within one foot of sand, with one foot of dry bentonite above, followed by hydrated bentonite to six inches below the depth of the upper probe or the ground surface. The surface end of the probe was fitted with a gas-tight leurlock to prevent infiltration of water or air. The soil gas probes were allowed to equilibrate for at least two hours prior to sampling.

Step-out Soil Borings

Based on the analytical results of soil samples collected from our initial soil borings, 14 step-out borings were advanced on February 21, 2019 to a total depth of 10 feet bgs in the vicinity of initial borings SB6 and SB9. The step-out borings were advanced using direct push drilling equipment operated by Millennium Environmental, Inc. Soil samples were collected at depths of 2.5, 5.0, 7.5 and 10 feet bgs. Soil samples were logged and retained using the same methods described above. The containers were clearly marked with sample identification, placed in an ice-cooled chest for temporary storage, and transported to TA of Irvine, California for chemical analysis. Chain-of-custody protocol was followed throughout all phases of the sample handling process.

Soil Gas Survey

On January 25, 2019, a soil gas survey was performed at the site to evaluate subsurface conditions for the presence of volatile organic compounds (VOCs) in soil gas. The soil gas survey was performed in conformance with the California Environmental Protection Agency – Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board – Los Angeles and San Francisco Region's (LARWQCB and SFRWQCB) Advisory – Active Soil Gas Investigations, July 2015.

Soil gas sample collection and chemical analysis was performed using an onsite mobile laboratory operated by H&P Mobile Geochemistry Inc. (H&P). H&P is a certified National Environmental Laboratory Accreditation Program (NELAP) laboratory.

At each sampling location an appropriately decontaminated glass syringe was attached to the probe and the probe was purged prior to sample collection. A default three purge volumes was removed from the soil gas probes prior to sampling. Soil gas samples were obtained by drawing the sample through a luerlock connection which connects the sampling probe to the sample. Soil gas samples were immediately injected into the onsite mobile laboratory gas chromatograph/purge and trap system after collection.

A tracer gas mixture of 1,1-difluoroethane (DFA) was applied onto a cloth in the area of the soil gas probes at each point of connection in which ambient air could enter the sampling system. These connection points included the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. The tracer gas was not detected in the soil gas samples collected indicating that no ambient air compromised the soil gas analytical test data.

Two duplicate soil gas samples, collected for quality control purposes, were obtained and analyzed during the soil gas survey.

Upon completion of soil gas sampling activities, all borings were backfilled with hydrated bentonite chips to a depth of approximately 4 inches bgs. The surface was returned to its original finish.

Laboratory Analysis

Select soil samples collected from the initial soil borings on January 15, 2019 were analyzed for VOCs by Environmental Protection Agency (EPA) Method 8260B, total petroleum hydrocarbons (TPH) as gasoline, diesel, and oil by EPA Method 8015M, and Title 22 Metals by EPA Method 6010B/7471A.

Select soil samples collected from the step-out soil borings on February 21, 2019 were analyzed for TPH as gasoline (samples collected in the vicinity of boring SB9) or TPH diesel and oil (samples collected in the vicinity of boring SB6) using EPA Method 8015M.

Soil gas samples collected on January 25, 2019 were immediately injected into an onsite mobile laboratory gas chromatograph/purge and trap system, operated by H&P,

after collection. Each soil gas sample, including the duplicates, was analyzed for the tracer gas and VOCs by modified EPA Method 8260B.

Copies of the chain of custody forms and complete analytical reports are included in Appendix D.

RESULTS

Soil Analytical Results

The soil analytical results were compared to one or more of the following regulatory screening criteria:

- The EPA Region IX Residential Regional Screening Levels (RSLs, November 2018);
- The DTSC Southern California Background concentration of 12 mg/kg for arsenic; and
- The DTSC Office of Human and Ecological Risk (HERO) Note Number 3 (June 2018).

The complete laboratory reports are included in Appendix D. A summary of laboratory results are presented in Tables 1 and 2 and below.

Volatile Organic Compounds

Three VOCs were detected in soil samples collected from the site during this investigation. The VOC results are summarized below:

- 1,2,4-Trimethylbenzene was detected in one of the 12 soil samples analyzed during this investigation at a concentration of 3.9 micrograms per kilogram ($\mu\text{g/kg}$) (SB9-25). The detection of 1,2,4-Trimethylbenzene did not exceed the residential HERO Note Number 3 screening criteria of 300,000 $\mu\text{g/kg}$.
- 1,3,5-Trimethylbenzene was detected in one of the 12 soil samples analyzed during this investigation at an estimated concentration of 1.3 $\mu\text{g/kg}$ (SB9-25). The detection of 1,3,5-Trimethylbenzene did not exceed the residential HERO Note Number 3 screening criteria of 270,000 $\mu\text{g/kg}$.

- Methylene Chloride was detected in one of the 12 soil samples analyzed during this investigation at an estimated concentration of 4.9 µg/kg (SB6-2.5). The detection of methylene chloride did not exceed the residential HERO Note Number 3 screening criteria of 1,800 µg/kg.

Total Petroleum Hydrocarbons

TPH as gasoline, also referred to as gasoline range organics (GRO), was detected in four of the 37 soil samples analyzed during this investigation at concentration ranging from 0.41 mg/kg (SB9-W5-5) to 260 mg/kg (SB9-5). The detected concentration of GRO in one soil sample, SB9-5, exceeded the residential RSL of 86 mg/kg.

TPH as diesel, also referred to as diesel range organics (DRO), was detected in 19 of the 39 soil samples analyzed during this investigation at concentrations ranging from 2.5 mg/kg to 1,800 mg/kg. The detected concentrations of DRO in three soil samples, SB6-2.5, SB6-E5-2.5, and SB6-5, exceeded the residential RSL of 96 mg/kg.

TPH as motor oil, also referred to as oil range organics (ORO), was detected in 38 of the 39 soil samples analyzed during this investigation at concentrations ranging from 2.5 mg/kg to 4,100 mg/kg. The detected concentrations of ORO in two soil samples (SB6-2.5 and SB6-5) exceeded the residential RSL of 2,500 mg/kg.

Title 22 Metals

Title 22 Metals were detected in each of the soil samples analyzed during this investigation with the exception of antimony, selenium, silver, and thallium. No samples contained metals at concentrations exceeding their respective screening criteria.

Soil Gas Analytical Results

The soil gas analytical results were compared to the adjusted HERO Note 3 (June 2018) and EPA Region 9 RSLs (November 2018) for indoor air in the more conservative residential setting assuming a future slab attenuation factor of 0.001 (DTSC, 2011). The selected decision criteria are conservative values typically used for screening purposes on residential properties and are not regulatory cleanup goals for the site.

The results of the laboratory analyses of the soil gas samples collected during this investigation are summarized in Table 3 and below:

- PCE was detected in 12 of the 16 soil gas samples analyzed during this investigation at concentrations ranging from 0.03 micrograms per liter ($\mu\text{g/L}$) to 0.21 $\mu\text{g/L}$. Detected concentrations of PCE did not exceed the residential HERO Note Number 3 screening criteria of 0.46 $\mu\text{g/L}$.
- Benzene was detected in one of the 16 soil gas samples analyzed during this investigation at a concentration of 0.02 $\mu\text{g/L}$ (SB6-5). The detected concentration of benzene did not exceed the residential HERO Note Number 3 screening criteria of 0.097 $\mu\text{g/L}$.
- n-Propylbenzene was detected in one of the 16 soil gas samples analyzed during this investigation at a concentration of 0.13 $\mu\text{g/L}$ (SB9-5). The detected concentration of n-Propylbenzene did not exceed the residential RSL screening criteria of 1,000 $\mu\text{g/L}$.
- N-Butylbenzene was detected in one of the 16 soil gas samples analyzed during this investigation at a concentration of 0.26 $\mu\text{g/L}$ (SB9-5). There is no applicable screening criteria for n-Butylbenzene.
- Sec-Butylbenzene was detected in one of the 16 soil gas samples analyzed during this investigation at a concentration of 0.12 $\mu\text{g/L}$ (SB9-5). There is no applicable screening criteria for sec-Butylbenzene.

CONCLUSIONS

Soil sample analytical results indicate that soil in the vicinity of two borings, SB6 and SB9, contain GRO or DRO and ORO at concentrations exceeding the RSL for residential land use.

- GRO was detected at a concentration of 260 mg/kg in boring SB9 at a depth of 5 feet bgs. GRO was not detected above the laboratory reporting limit in the soil samples collected above, at a depth of 2.5 feet bgs, and below, at a depth of 10 feet bgs, from within boring SB9. Soil samples collected at depths of 2.5, 5, and 7.5 feet bgs from step-out soil borings located approximately 2.5 feet north and south of SB9 and 5 feet east and west of SB9 did not contain GRO at concentrations exceeding the regulatory screening limits. Based on the results of our step-out soil samples, the GRO-impacted soil identified in boring SB9 appears to be very limited in vertical and lateral extent and is considered *de minimis*.

- DRO and ORO were detected at maximum concentrations of 4,100 mg/kg and 1,800 mg/kg in boring SB6 at depths of 2.5 and 5 feet bgs, respectively. DRO and ORO were not detected at concentrations exceeding the RSL for residential use in the soil sample collected at a depth of 10 feet bgs from within boring SB6. SB6 was advanced adjacent to the oil/water separator on the north side of the main shop building, and a potential release associated with the oil/water separator could be attributed as the source of contamination. DRO was detected at a concentration exceeding the residential RSL in one step-out soil boring, SB6-E5 (located 5 feet east of boring SB6) at a depth of 2.5 feet bgs. DRO was not detected above the laboratory reporting limits in step-out borings SB6-NE10 and SB6-SE10, located approximately 10 feet southeast and northeast of boring SB6. The extent of DRO-impacted soil is limited to an area approximately 10 feet by 15 feet and ranges in vertical depth from 5 feet in the vicinity of boring SB6-E5 up to 7.5 feet in the vicinity of boring SB6.

Concentrations of metals and VOCs detected in soil samples analyzed during this investigation do not exceed residential use screening criteria. Additionally, concentrations of VOCs detected in soil gas samples analyzed during this investigation do not exceed proposed residential use screening criteria.

RECOMMENDATIONS

Based on the results of this Phase II ESA, it is Leighton's opinion that additional assessment of the site is not warranted. The GRO-impacted soil in the vicinity of boring SB9 is considered *de minimis* and remediation and/or mitigation is not warranted prior to redevelopment of the site based on the insignificant quantity detected.

The lateral and vertical limits of DRO/ORO-impacted soil in the vicinity of boring SB6 have been delineated. The area of soil requiring removal and offsite disposal prior to redevelopment of the site is approximately 10 feet by 15 feet up to an average depth of 6.5 feet. The estimated quantity is approximately 36 cubic yards or roughly 58 tons. The area requiring removal is illustrated on Figure 2.

Prior to redevelopment of the site for residential use, it is likely that the abandoned in-place 20,000-gallon diesel, located on the south side of the main shop building will need to be removed under the guidance and direction of the Anaheim Fire Department. The

Anaheim Fire Department may require soil beneath the tank to be excavated and disposed of based on sample results collected during removal activities.

An estimate to provide the remedial activities listed above is provided below. It should be noted that the remedial activities (soil excavation and tank removal) are an approximation (based on current rates and tipping fees) and will be more precisely estimated prior to completion of remedial activities.

REMEDIAL ACTIVITIES (ROUGH ORDER MAGNITUDE)

Removal of oil/water separator, excavation of TPH-impacted soil (assumed up to 250 cubic yards of non-haz soil), and tank removal activities	\$ 135,000.00
--	----------------------

In general, observations should be made during any future Site redevelopment for areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

LIMITATIONS

This investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the activities described herein, and are limited to the portion of the Site investigated. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions outside of the area investigated or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the portion of the Site investigated, and the amount, type, distribution, and integrity of the information collected at the time of the investigation, and the methods utilized to collect and evaluate the data. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of the information provided by others.

CLOSING

We appreciate the opportunity to work with you on this project. If you have any questions regarding this report, please call us at your convenience.



Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.



Brynn McCulloch, PG
Associate Geologist

BFM

Attachments: Table 1 – Soil Analytical Results for Title 22 Metals
Table 2 – Soil Analytical Results for TPH and VOCs
Table 3 – Soil Gas Analytical Results for VOCs

Figure 1 – Site Location Map

Figure 2 – Site Plan

Appendix A – References

Appendix B – Geophysical Survey Report

Appendix C – Boring Logs

Appendix D – Laboratory Reports and Chain-of-Custody Records

Distribution: (1) Addressee

TABLE 1
Soil Analytical Results for Title 22 Metals
1122 North Anaheim Boulevard, Anaheim, California

Boring ID	Sample ID	Depth (feet bgs)	Sample Date	Title 22 Metals (mg/kg)																
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HERO Note 3 Residential SL - June 2018				--	0.11	--	15	5.2	36,000	--	--	80	1.0	--	490	--	390	--	390	--
USEPA Residential RSL - November 2018				310	0.68	15,000	160	71	--	23	3,100	400	1.1	390	670	390	390	0.78	390	23,000
SoCal Background (Arsenic Only)				--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB1	SB1-0.5	0.5	1/15/2019	<10	2.2 J	76	0.42 J	0.85	20	7.4	50	17	0.037	<2.0	15	<3.0	<1.5	<10	42	65
	SB1-2.5	2.5	1/15/2019	<9.8	<2.9	15	<0.49	<0.49	3.9	1.4	9.7	3.2	0.015 J	<2.0	3.1	<2.9	<1.5	<9.8	8.3	13
SB2	SB2-0.5	0.5	1/15/2019	<9.9	<3.0	15	<0.50	<0.50	4.2	1.6	4.9	1.4 J	0.038	<2.0	2.3	<3.0	<1.5	<9.9	11	13
	SB2-2.5	2.5	1/15/2019	<9.9	2.8 J	57	0.27 J	0.39 J	15	5.2	38	12	0.022	<2.0	9.4	<3.0	<1.5	<9.9	33	49
SB3	SB3-0.5	0.5	1/15/2019	<10	<3.0	32	<0.50	<0.50	11	3.2	9.4	3.7	0.036	<2.0	5.3	<3.0	<1.5	<10	26	29
	SB3-2.5	2.5	1/15/2019	<9.9	1.9 J	50	0.31 J	0.27 J	14	4.5	34	11	0.019 J	<2.0	8.1	<3.0	<1.5	<9.9	30	41
SB4	SB4-0.5	0.5	1/15/2019	<10	<3.0	20	<0.50	<0.50	8.4	2.0	4.9	1.2 J	0.071	<2.0	2.9	<3.0	<1.5	<10	21	17
	SB4-2.5	2.5	1/15/2019	<9.9	3.5	65	0.41 J	0.57	17	5.0	44	17	0.012 J	1.3 J	11	<3.0	<1.5	<9.9	35	56
SB5	SB5-0.5	0.5	1/15/2019	<10	<3.0	22	<0.50	<0.50	6.6	1.9	3.9	1.6 J	0.015 J	<2.0	3.2	<3.0	<1.5	<10	18	17
	SB5-2.5	2.5	1/15/2019	<10	<3.0	14	<0.50	<0.50	5.1	1.5	14	1.7 J	0.017 J	<2.0	2.7	<3.0	<1.5	<10	14	14
SB6	SB6-0.5	0.5	1/15/2019	<10	1.5 J	20	<0.50	<0.50	8.0	2.1	11	1.3 J	0.037	1.0 J	2.6	<3.0	<1.5	<10	17	16
	SB6-2.5	2.5	1/15/2019	<9.9	2.7 J	53	0.28 J	0.43 J	14	5.2	35	11	0.024	<2.0	9.3	<3.0	<1.5	<9.9	31	43
SB7	SB7-0.5	0.5	1/15/2019	<10	<3.0	25	<0.51	<0.51	6.0	1.9	4.2	11	0.017 J	<2.0	3.3	<3.0	<1.5	<10	15	19
	SB7-2.5	2.5	1/15/2019	<9.9	8.1	51	<0.49	0.34 J	11	2.5	15	19	0.016 J	1.7 J	6.6	<3.0	<1.5	<9.9	20	74
SB8	SB8-0.5	0.5	1/15/2019	<10	1.7 J	27	<0.50	<0.50	5.9	2.1	10	6.4	0.036	<2.0	3.5	<3.0	<1.5	<10	16	29
	SB8-2.5	2.5	1/15/2019	<9.9	6.8	120	0.35 J	2.5	28	3.3	8.2	4.4	0.013 J	2.2	21	<3.0	<1.5	<9.9	34	26
SB9	SB9-0.5	0.5	1/15/2019	<9.9	5.6	90	0.27 J	1.3	25	3.0	9.7	4.8	0.029	1.6 J	17	<3.0	<1.5	<9.9	32	30
	SB9-2.5	2.5	1/15/2019	<10	4.8	73	<0.50	0.79	17	2.7	15	12	0.023	1.4 J	12	<3.0	<1.5	<10	25	46

Notes:

mg/kg = milligrams per kilogram
bgs = below ground surface
<2.0 = Not detected above laboratory reporting limit as shown
2.14 = A bold number indicates that the chemical compound has exceeded the laboratory report limit.

SoCal Background = DTSC Determination of a Southern California Regional Background Arsenic Concentration in Soil (DTSC, 2008)
HERO Note 3 = Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) Note Number 3 for Residential Soil (June 2018)
RSL = United States Environmental Protection Agency (USEPA) Region 9 Regional Screening Levels for Residential Soil (November 2018)
SL = Screening Level (Residential)
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
-- = Not applicable

TABLE 2
Soil Analytical Results for TPH and VOCs
1122 North Anaheim Boulevard, Anaheim, California

Boring ID	Sample ID	Depth (feet bgs)	Sample Date	TPH (mg/kg)			VOCs (µg/kg)																
				GRO (C4-C12)	DRO (C13-C22)	ORO (C23-C40)	Benzene	Toluene	Ethylbenzene	Xylenes	n-Butylbenzene	sec-butylbenzene	Chloroform	Isopropylbenzene	n-Propylbenzene	PCE	TCE	Methylene Chloride	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene			
HERO Note 3 Residential SL - June 2018				--	--	--	330	1,100,000	--	--	--	--	--	--	--	590	--	1,800	--	--			
USEPA Residential RSL - November 2018				86*	96*	2,500*	1,200	4,900,000	--	560,000	7,800,000	3,900,000	320	--	24,000	24,000	940	57,000	270,000	300,000			
SB1	SB1-2.5	2.5	1/15/2019	<0.40	<5.0	4.1 J	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB1-10	10	1/15/2019	<0.40	2.9 J	4.1 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB2	SB2-2.5	2.5	1/15/2019	<0.40	4.2 J	8.4	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB2-10	10	1/15/2019	<0.40	<4.9	3.4 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB3	SB3-2.5	2.5	1/15/2019	<0.40	2.5 J	12	<2.0	<2.0	<2.0	<4.0	<4.9	<4.9	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB3-10	10	1/15/2019	<0.40	<5.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB4	SB4-2.5	2.5	1/15/2019	<0.40	<4.9	6.8	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB4-10	10	1/15/2019	<0.40	3.2 J	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB5	SB5-2.5	2.5	1/15/2019	<0.40	2.5 J	10	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB5-10	10	1/15/2019	<0.40	<4.9	3.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6	SB6-2.5	2.5	1/15/2019	<0.40	1,600	4,100	<2.0	<2.0	<2.0	<3.9	<4.9	<4.9	<2.0	<2.0	<2.0	<2.0	<2.0	4.9 J	<2.0	<2.0			
	SB6-5	5	1/15/2019	<0.40	1,800	3,100	<2.0	<2.0	<2.0	<3.9	<4.9	<4.9	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB6-10	10	1/15/2019	<0.40	2.8 J	4.3 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6-N5	SB6-N5-2.5	2.5	2/21/2019	--	<5.0	5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-N5-5	5.0	2/21/2019	--	<5.0	3.5 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-N5-7.5	7.5	2/21/2019	--	<5.0	2.5 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6-NE10	SB6-NE10-2.5	2.5	2/21/2019	--	<5.0	4.0 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6-E5	SB6-E5-2.5	2.5	2/21/2019	--	320	580	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-E5-5	5.0	2/21/2019	--	2.9 J	4.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-E5-7.5	7.5	2/21/2019	--	<5.0	2.8 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6-SE10	SB6-SE10-2.5	2.5	2/21/2019	--	<5.0	3.1 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6-S5	SB6-S5-2.5	2.5	2/21/2019	--	<5.0	3.0 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-S5-5	5.0	2/21/2019	--	<5.0	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-S5-7.5	7.5	2/21/2019	--	<5.0	2.7 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB6-W5	SB6-W5-2.5	2.5	2/21/2019	--	<5.0	3.0 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-W5-5	5.0	2/21/2019	--	<5.0	4.7 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB6-W5-7.5	7.5	2/21/2019	--	<5.0	5.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB7	SB7-2.5	2.5	1/15/2019	<0.40	86	820	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB7-10	10	1/15/2019	<0.40	2.7 J	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB8	SB8-2.5	2.5	1/15/2019	<0.40	<4.9	8.9	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB8-10	10	1/15/2019	<0.40	<5.0	3.2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB9	SB9-0.5	0.5	1/15/2019	<0.40	12	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB9-2.5	2.5	1/15/2019	<0.40	8.3	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB9-5	5	1/15/2019	260	5.2	9.0	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB9-10	10	1/15/2019	<0.40	23	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB9-20	20	1/15/2019	<0.40	<4.9	3.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	SB9-25	25	1/15/2019	0.48	3.3 J	7.0	<2.0	<2.0	<2.0	<3.9	<4.9	<4.9	<2.0	<2.0	<2.0	<2.0	<2.0	<20	1.3 J	3.9			
	SB9-30	30	1/15/2019	<0.40	3.0 J	5.4	<2.0	<2.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0			
	SB9-35	35	1/15/2019	<0.40	2.5 J	4.4 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

TABLE 2
Soil Analytical Results for TPH and VOCs
1122 North Anaheim Boulevard, Anaheim, California

Boring ID	Sample ID	Depth (feet bgs)	Sample Date	TPH (mg/kg)			VOCs (µg/kg)													
				GRO (C4-C12)	DRO (C13-C22)	ORO (C23-C40)	Benzene	Toluene	Ethylbenzene	Xylenes	n-Butylbenzene	sec-butylbenzene	Chloroform	Isopropylbenzene	n-Propylbenzene	PCE	TCE	Methylene Chloride	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
HERO Note 3 Residential SL - June 2018				--	--	--	330	1,100,000	--	--	--	--	--	--	--	590	--	1,800	--	--
USEPA Residential RSL - November 2018				86*	96*	2,500*	1,200	4,900,000	--	560,000	7,800,000	3,900,000	320	--	24,000	24,000	940	57,000	270,000	300,000
SB9-E5	SB9-E5-2.5	2.5	2/21/2019	<0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-E5-5	5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-E5-7.5	7.5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB9-W5	SB9-W5-2.5	2.5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-W5-5	5	2/21/2019	0.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-W5-7.5	7.5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB9-S5	SB9-S5-2.5	2.5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-S5-5	5	2/21/2019	<0.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-S5-7.5	7.5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB9-N5	SB9-N5-2.5	2.5	2/21/2019	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-N5-5	5	2/21/2019	<0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9-N5-7.5	7.5	2/21/2019	0.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

2.14 = A bold number indicates that the chemical compound has exceeded the laboratory report limit.

(bgs) = below ground surface

PCE = Tetrachloroethylene or Tetrachloroethene

TCE = Trichloroethylene or Trichloroethene

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

<0.020 = Not detected above the laboratory detection limit

TPH = Total Petroleum Hydrocarbons

VOC = Volatile Organic Compound

-- = Not analyzed or not applicable

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

ORO = Oil Range Organics

HERO Note 3 = Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) Note Number 3 for Residential Soil (June 2018)

RSL = United States Environmental Protection Agency (USEPA) Region 9 Regional Screening Levels for Residential Soil (November 2018)

*Lowest aromatic/aliphatic TPH RSL selected for screening criteria

SL = Screening Level (Residential)

TABLE 3
Soil Gas Analytical Results for VOCs
1122 North Anaheim Boulevard, Anaheim, California

Boring ID	Sample ID	Probe Depth (feet bgs)	Date	VOCs (µg/L)								
				Ethylbenzene	Toluene	1,2,4-Trimethylbenzene	n-Propylbenzene	n-Butylbenzene	Benzene	sec-Butylbenzene	Xylenes	PCE
HERO Note 3 Residential SL (0.001 attenuation factor) - June 2018				--	310	--	--	--	0.097	--	--	0.46
JSEPA Residential RSL (0.001 attenuation factor) - November 2018				1.1	5,200	63	1,000	--	0.36	--	100	11
SB1	SB1-5	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.04
	SB1-15	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.04
SB2	SB2-5	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	<0.02
	SB2-15	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	<0.02
SB3	SB3-5	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	<0.02
	SB3-15	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	<0.02
SB4	SB4-5	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.03
	SB4-15	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.03
SB5	SB5-5	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.08
	SB5-15	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.12
SB6	SB6-5	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	0.02	<0.10	<0.10	0.04
	SB6-5 Rep	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.04
	SB6-15	5.0	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.03
	SB6-15 Rep	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.04
SB9	SB9-5	5.0	01/25/19	<0.10	<0.20	<0.10	0.13	0.26	<0.02	0.12	<0.10	0.13
	SB9-15	15	01/25/19	<0.10	<0.20	<0.10	<0.10	<0.10	<0.02	<0.10	<0.10	0.21

Notes:

2.14 = A bold number indicates that the chemical compound has exceeded the laboratory report limit.

bgs = below ground surface

PCE = Tetrachloroethylene or Tetrachloroethene

µg/L = micrograms per liter

<0.020 = Not detected above the laboratory detection limit

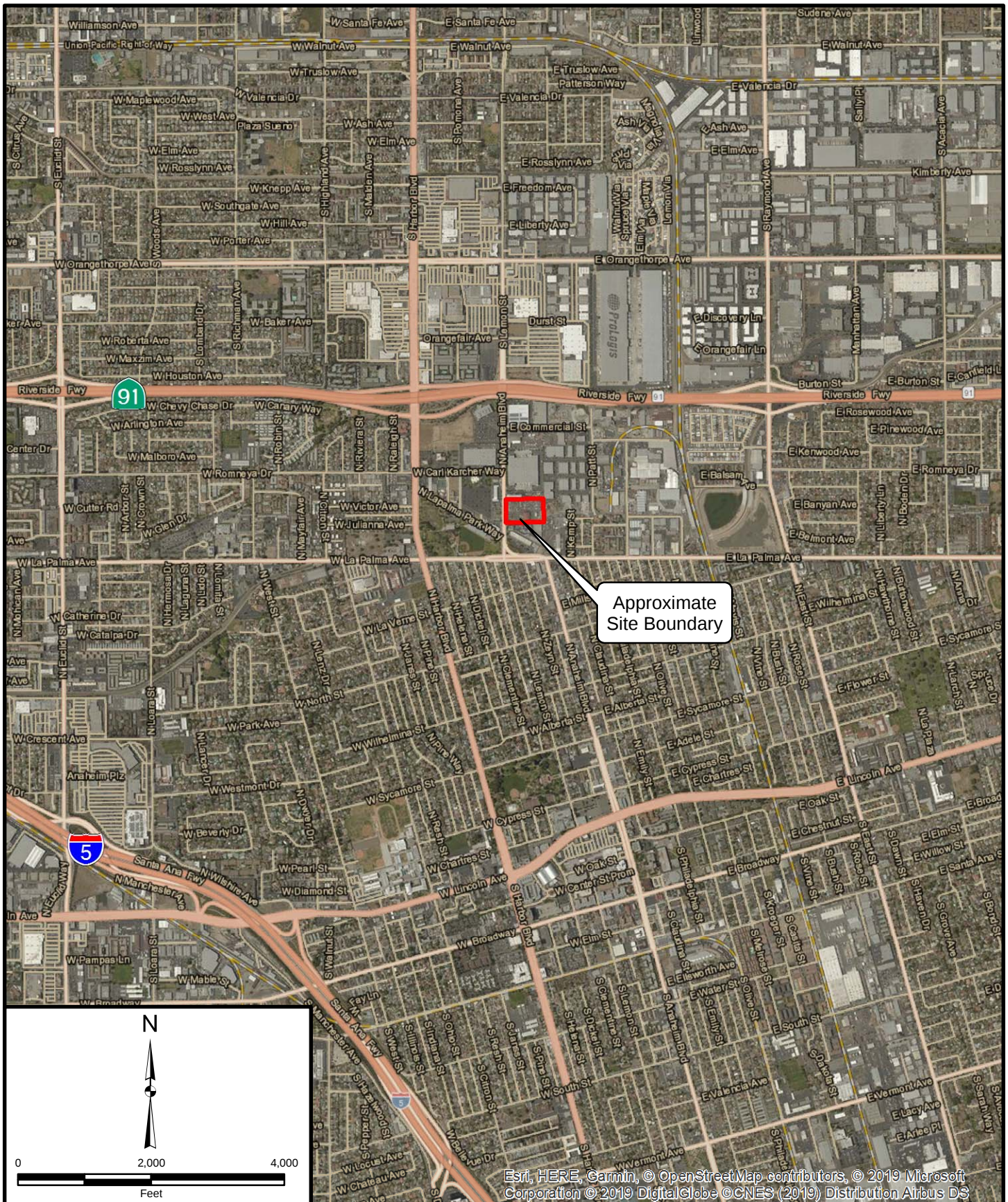
HERO Note 3 = Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) Note Number 3 for Residential Air (June 2018)

RSL = United States Environmental Protection Agency (USEPA) Region 9 Regional Screening Levels for Residential Air (November 2018)

SL = Screening Level (Residential)

-- = Not applicable

Screening levels are adjusted using a 0.001 attenuation factor for future residential use are from Table 2 of the
2011 Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)



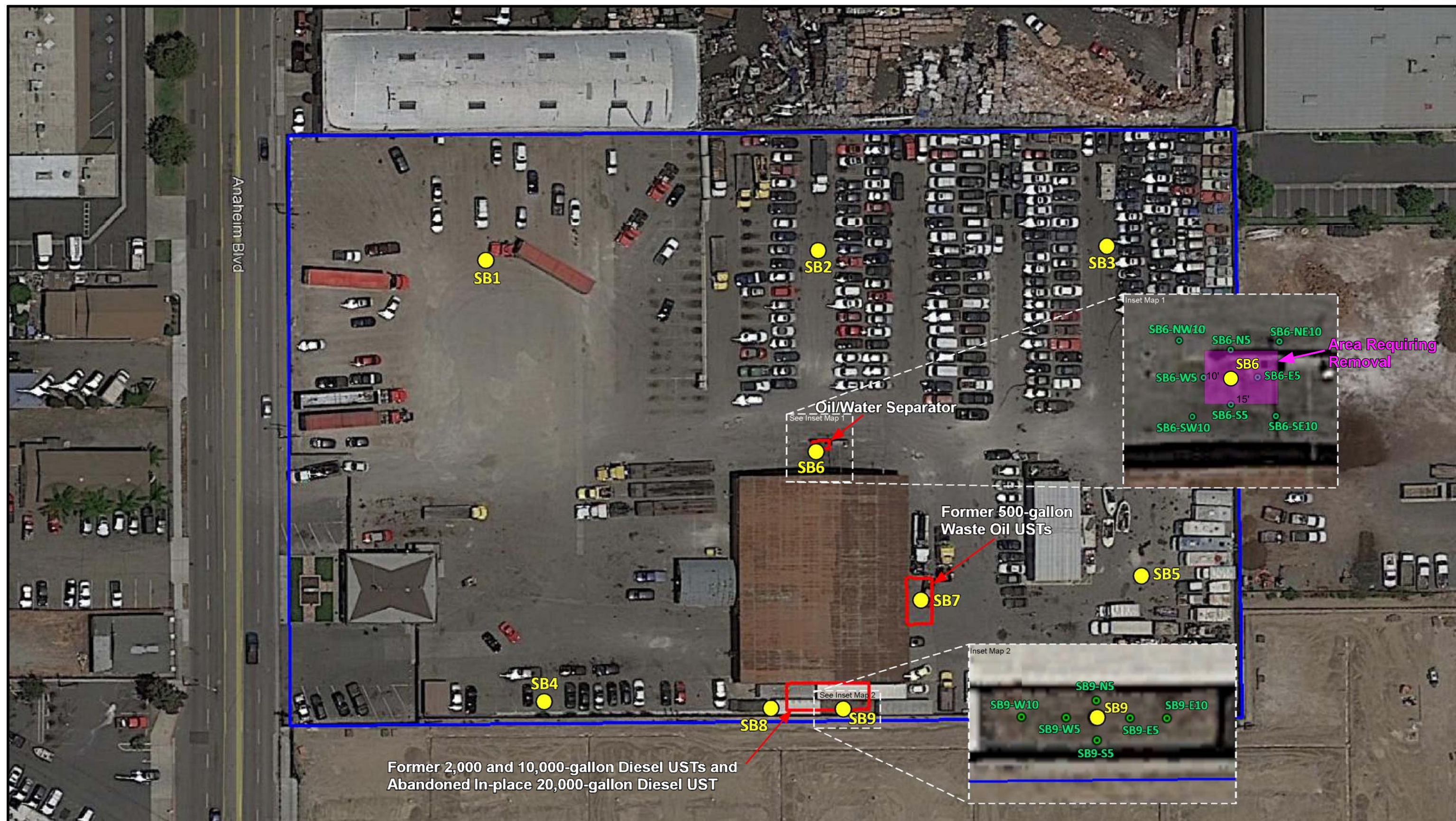
Project: 11862.002	Eng/Geol: BFM
Scale: 1" = 2,000'	Date: February 2019
Base Map: ESRI ArcGIS Online 2019 Thematic Information: Leighton Author: Leighton Geomatics (btran)	

SITE LOCATION MAP 1122 North Anaheim Boulevard Anaheim, California

Figure 1



Leighton



LEGEND

- Approximate Subject Site Boundary
- Approximate Initial Boring Location and ID
- Approximate Step-out Boring Location and ID

SITE PLAN

1122 North Anaheim Boulevard
Anaheim, California

Project No. Scale Engr./Geol. Drafted By Date	11862.002 1" = 55' BFM BFM March 2019	
---	---	---

Figure No. 2

APPENDIX A

REFERENCES

APPENDIX A

References

AECOM, Phase I Environmental Site Assessment of Anaheim Fullerton Towing, 1122 North Anaheim Boulevard, Anaheim, California, dated December 2017.

Department of Toxic Substances Control, Human and Ecological Risk Office, Human Health Risk Assessment Note Number 3, dated June 2018.

Department of Toxic Substances Control Los Angeles Regional Water Quality Control Board and San Francisco Regional Water Quality Control Board, 2012, Advisory – Active Soil Gas Investigations, dated July 2015.

United States Environmental Protection Agency, 2018, Region 9 Residential Regional Screening Levels, November 2018.



APPENDIX B
GEOPHYSICAL SURVEY REPORT



January 10, 2019

Leighton Group

17781 Cowan
Irvine, CA 92514

Project No. 19-014

Attn: Brynn McCulloch

Re: Geophysical Investigation, Tow Lot, 1122 North Anaheim Boulevard, Anaheim, California

This report is to present the results of our geophysical survey carried out over the property of a Tow Lot located at 1122 North Anaheim Boulevard in Anaheim, California (Figure 1). The survey was performed on January 10, 2019, and its purpose was to locate and identify, insofar as possible, the existence of any pipes, conduits, utilities, and other underground obstructions within the vicinity of nine (9) proposed boreholes scheduled for drilling.

A combination of electromagnetic induction (EM), magnetometry, and ground penetrating radar (GPR) were brought to the field with anticipation of use. Utility locators with line tracing capabilities were also used where applicable.



FIGURE 1 – Site location map

Survey Design – The areas to be surveyed were identified in the field by the client. It included nine (9) proposed boreholes placed in various locations on the asphalt and gravel surfaced lot of a tow yard.

In site situations and survey objectives such as this, the best use of time is achieved by systematically free-traversing with the instruments while monitoring them continuously to determine which responses are significant and due to true subsurface targets, and which are due to other non-target or above-ground features and must be ignored. Where applicable, the EM devices, magnetic gradiometer, and GPR were traversed systematically over the survey areas in multiple, organized directions. Other traverses were taken for detailing and confirmation where anomalous conditions were found.

In addition, the line tracers were used to impress signals onto pipes, generally through accessible risers and tracer wires when present, to delineate the lines' locations and orientations. The instruments were also used in passive mode, configured to detect 60 Hz electrical signals and other common radio-frequency signals.

Hard copy of the EM data was not acquired, that is, discrete readings on the nodes of a grid were not recorded that could be put into a contoured map format. Rather, the instruments' meters were read continuously, and in real-time, during each traverse. This free-traversing method allowed for immediate detection of anomalous objects and facilitated the opportunity to investigate them further, without the need to first download and process data in the office. The lack of hard copy for EM data sets does not degrade the quality of the survey in any way. Hard copy merely provides a basis for report documentation of these geophysical fields, if such documentation is needed.

A Geonic's model EM61 and a Fischer M-Scope, were used for the EM sampling. A Sensors & Software Noggin Ground Penetrating Radar unit with a 500 MHz antenna produced the radar images. A Metrotech 9890 and RIDGID SR-60 SeekTech utility locator rounded out the tools applied.

Brief Description of the Geophysical Methods Applied – The EM61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets.

The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic

field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

Interpretation and Conclusions - The interpretation took place in real time as the survey progressed, and accordingly, the findings of our investigation were verbally relayed to the client, and further documented with site photographs (Figures 2-10).

Utilities detected within the survey areas were marked out with chalk spray paint using pink for backfilled excavation, green for clarifier, and white for unknown piping.

Once completed, the proposed boreholes were spray-painted with a pink circle and yellow "SSS" to indicate that Subsurface Surveys personnel had investigated them. Please refer to the attached photos for location and orientation of items detected within the survey.

Limitations and Further Recommendations - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby power lines or EM transmitters, highly conductive background soil conditions, limited GPR penetration, non-metallic targets, shallower or larger objects shielding deeper or smaller targets, tracing signal jumping from one line to another, and inaccessible risers, cleanouts, valve boxes, and manholes. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey can be somewhat degraded.

For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible. Furthermore, we recommend hand auguring and the use of a drilling method known as air knitting or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the

course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.



Daniel L. Matticks, MS
Staff Geophysicist



Travis Crosby, GP# 1044
Senior Geophysicist

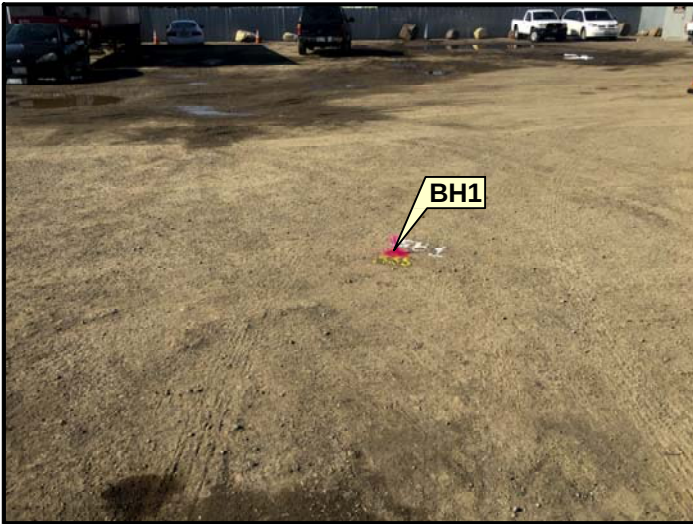


Figure 2

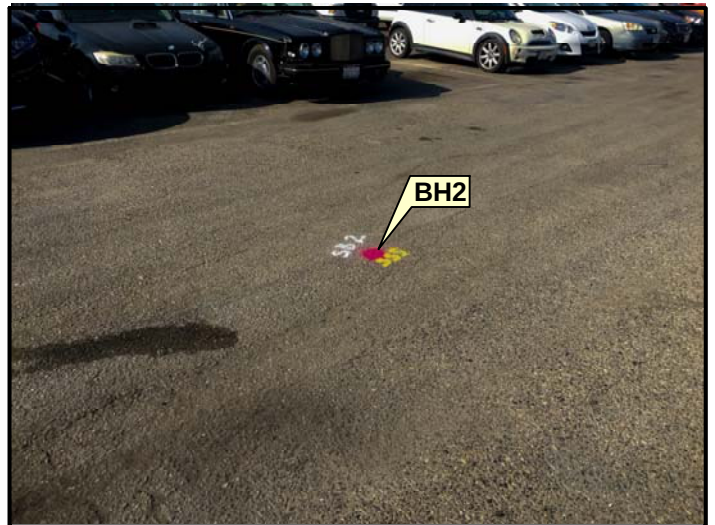


Figure 3

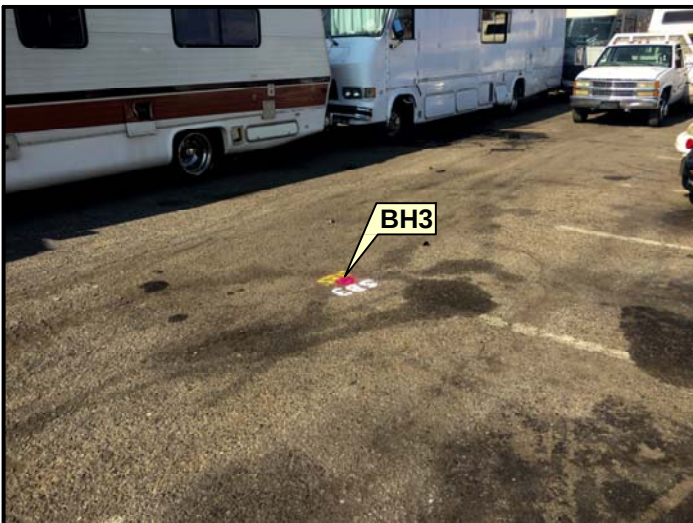


Figure 4



Figure 5



Figure 6

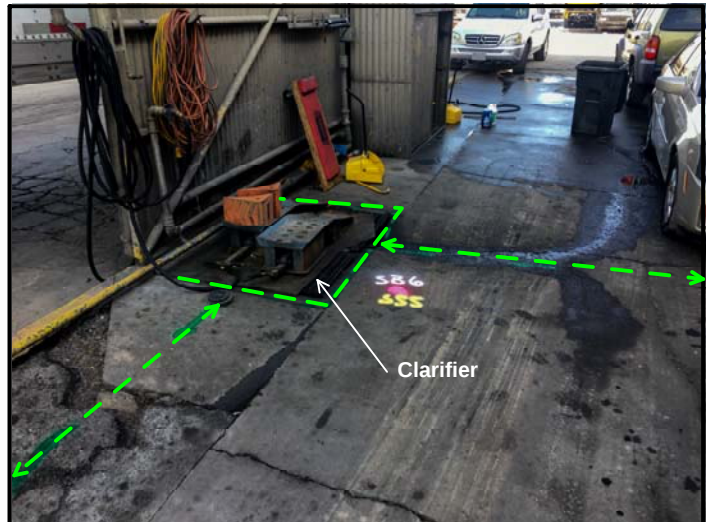


Figure 7



SITE:
Tow Yarrd
1122 North Anaheim Boulevard
Anahei, California

TITLE:
Borehole Photographs
PREPARED FOR:
Leighton Group

SURVEY DATE:
January 10, 2019
SSS PROJECT NO:
19-014

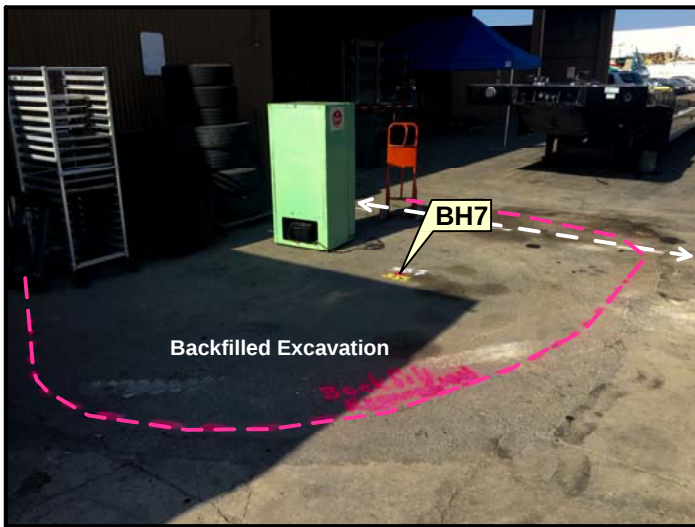


Figure 8



Figure 9



Figure 10



SITE:
Tow Yard
1122 North Anaheim Boulevard
Anaheim, California

TITLE:
Borehole Photographs
PREPARED FOR:
Leighton Group

SURVEY DATE:
January 10, 2019
SSS PROJECT NO:
19-014

APPENDIX C

BORING LOGS



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB1
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB1-0.5		0.0	SC		@Surface: clayey SAND, dark brown, dense, moist, fine to medium sand, no odor or staining.
2			SB1-2.5		0.0			@2': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
3								
4								
5			SB1-5		0.0			
6								
7						SP		
8								
9								
10			SB1-10		0.0			
11								
12								
13								
14								
15			SB1-15		0.0			@15': some coarse sand.
16								Total Depth = 15 feet bgs.
17								No groundwater encountered during drilling.
18								Boring backfilled with hydrated bentonite.
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB2
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB2-0.5		0.0	SC		@Surface: clayey SAND, dark brown, dense, moist, fine to medium sand, no odor or staining.
2			SB2-2.5		0.0			@2': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
3								
4								
5			SB2-5		0.0			
6								
7						SP		
8								
9								
10			SB2-10		0.0			
11								
12								
13								
14								
15			SB2-15		0.0			@15': some coarse sand.
16								Total Depth = 15 feet bgs.
17								No groundwater encountered during drilling.
18								Boring backfilled with hydrated bentonite.
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB3
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB3-0.5		0.0	SM		@Surface: silty SAND, brown, medium dense, moist, fine to medium sand, no odor or staining. @2.5': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
2			SB3-2.5		0.0			
3								
4								
5			SB3-5		0.0			
6								
7						SP		
8								
9								
10			SB3-10		0.0			
11								
12								
13								
14								
15			SB3-15		0.0			
16								Total Depth = 15 feet bgs. No groundwater encountered during drilling. Boring backfilled with hydrated bentonite.
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB4
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB4-0.5		0.0	SC		@Surface: clayey SAND, dark brown, dense, moist, fine to medium sand, no odor or staining.
2			SB4-2.5		0.0			@2.5': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
3								
4								
5			SB4-5		0.0			
6								
7						SP		
8								
9								
10			SB4-10		0.0			
11								
12								
13								
14								
15			SB4-15		0.0			@15': some coarse sand.
16								Total Depth = 15 feet bgs.
17								No groundwater encountered during drilling.
18								Boring backfilled with hydrated bentonite.
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB5
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB5-0.5		0.0	SM		@Surface: silty SAND, brown, dense, moist, fine to medium sand, some clay, no odor or staining. @2.5': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
2			SB5-2.5		0.0			
3								
4								
5			SB5-5		0.0			
6								
7						SP		
8								
9								
10			SB5-10		0.0			
11								
12								
13								
14								
15			SB5-15		0.0			@15': some silt.
16								Total Depth = 15 feet bgs. No groundwater encountered during drilling. Boring backfilled with hydrated bentonite.
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB6
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB6-0.5		0.0	SC		@Surface: 6" concrete.
2			SB6-2.5		0.0			@0.5': clayey SAND, dark brown, dense, moist, fine to medium sand, no odor or staining.
3								@2.5': SAND, brown, loose, slight moist, fine to medium sand, some silt, no odor or staining.
4								
5			SB6-5		0.0			
6								
7						SP		
8								
9								
10			SB6-10		0.0			
11								
12								
13								
14								
15			SB6-15		0.0			@14': 2" thick clayey sand layer.
16								Total Depth = 15 feet bgs.
17								No groundwater encountered during drilling.
18								Boring backfilled with hydrated bentonite.
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB7
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB7-0.5		0.0			@Surface: silty SAND, brown, medium dense, moist, fine to medium sand, no odor or staining.
2			SB7-2.5		0.0	SM		
3								
4								
5			SB7-5		0.0			
6								
7								
8								
9								
10			SB7-10		0.0			
11								@10': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
12						SP		
13								
14								
15			SB7-15		0.0			
16								Total Depth = 15 feet bgs. No groundwater encountered during drilling. Boring backfilled with hydrated bentonite.
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB8
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB8-0.5		0.0	SC		@Surface: clayey SAND, dark brown, dense, moist, fine to medium sand, no odor or staining.
2			SB8-2.5		0.0			@2.5': SAND, light tan, loose, slight moist, fine to medium sand, no odor or staining.
3								
4								
5			SB8-5		0.0			
6								
7								
8								
9								
10			SB8-10		0.0	SP		
11								
12								
13								
14								
15			SB8-15		0.0			
16								
17								
18								
19								
20			SB8-20		0.0			@20': clayey SAND, brown, moist, dense, very fine to fine sand, no odor or staining.
21								
22						SC		
23								
24								
25			SB8-25		0.0			
26								Total Depth = 25 feet bgs. No groundwater encountered during drilling. Boring backfilled with hydrated bentonite.
27								
28								
29								
30								

GE SBL G-40 ABM BORING LOGS.GPJ LAEWN01.GDT 2/5/19



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB9
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019
LOCATION 1122 North Anaheim Boulevard, Anaheim, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Direct Push (540B) SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Sleeves GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER
LOGGED BY SAG GROUND WATER ELEVATION
REMARKS Drilling completed by Millenium Enviromental Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
1			SB8-0.5		0.0			@Surface: silty SAND, brown, moist, dense, fine to medium sand, some clay, no odor or staining.
2			SB8-2.5		0.0			
3								
4			SB8-5		295.1			@5': diesel fumes.
5								
6								
7								
8								
9			SB8-10		0.0	SM		@10': no clay.
10								
11								
12								
13			SB8-15		0.0			
14								
15								
16								
17								
18								
19			SB8-20		0.0			
20								@20': SAND, light tan, loose, slight moist, fine to medium sand, some coarse sand, no odor or staining.
21								
22						SP		
23								
24			SB8-25		11.3			@25': some silt, diesel fumes.
25								@30': clayey SAND, brown, dense, moist, very fine to fine sand, no odor or staining.
26								
27						SC		
28								
29			SB9-30		0.0			
30								

Continued Next Page



SOIL BORING LOG

PROJECT NUMBER 11862.002 BORING/WELL NUMBER SB9
PROJECT NAME RPP Anaheim DATE DRILLED 1/15/2019

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
31			SB9-35			SP		@35': SAND, light tan, loose, slight moist, fine to medium sand, some coarse sand, no odor or staining.
32								
33								
34								
35					0.0			
36								Total Depth = 35 feet bgs. No groundwater encountered during drilling. Boring backfilled with hydrated bentonite.
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								

GE_SBL_G-40_ABM_BORING_LOGS.GPJ LAEWN01.GDT 2/5/19

APPENDIX D

**LABORATORY REPORTS
AND CHAIN-OF-CUSTODY RECORDS**

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-230161-1

Client Project/Site: RPP Anaheim

For:

Leighton and Associates Inc

17781 Cowan

Suite 200

Irvine, California 92614

Attn: Brynn McCulloch



Authorized for release by:

1/29/2019 4:06:13 PM

Danielle Roberts, Senior Project Manager

(949)261-1022

danielle.roberts@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	15
Surrogate Summary	51
Method Summary	54
Lab Chronicle	55
QC Sample Results	64
QC Association Summary	93
Definitions/Glossary	100
Certification Summary	101
Chain of Custody	102
Receipt Checklists	107



Sample Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-230161-1	SB1-0.5	Solid	01/15/19 07:45	01/15/19 14:24
440-230161-2	SB1-2.5	Solid	01/15/19 07:47	01/15/19 14:24
440-230161-4	SB1-10	Solid	01/15/19 07:54	01/15/19 14:24
440-230161-6	SB2-0.5	Solid	01/15/19 08:25	01/15/19 14:24
440-230161-7	SB2-2.5	Solid	01/15/19 08:27	01/15/19 14:24
440-230161-9	SB2-10	Solid	01/15/19 08:33	01/15/19 14:24
440-230161-11	SB3-0.5	Solid	01/15/19 11:15	01/15/19 14:24
440-230161-12	SB3-2.5	Solid	01/15/19 11:13	01/15/19 14:24
440-230161-14	SB3-10	Solid	01/15/19 11:16	01/15/19 14:24
440-230161-16	SB4-0.5	Solid	01/15/19 11:33	01/15/19 14:24
440-230161-17	SB4-2.5	Solid	01/15/19 11:32	01/15/19 14:24
440-230161-19	SB4-10	Solid	01/15/19 11:35	01/15/19 14:24
440-230161-21	SB5-0.5	Solid	01/15/19 10:55	01/15/19 14:24
440-230161-22	SB5-2.5	Solid	01/15/19 10:53	01/15/19 14:24
440-230161-24	SB5-10	Solid	01/15/19 10:57	01/15/19 14:24
440-230161-26	SB6-0.5	Solid	01/15/19 08:07	01/15/19 14:24
440-230161-27	SB6-2.5	Solid	01/15/19 08:10	01/15/19 14:24
440-230161-28	SB6-5	Solid	01/15/19 08:15	01/15/19 14:24
440-230161-29	SB6-10	Solid	01/15/19 08:40	01/15/19 14:24
440-230161-31	SB7-0.5	Solid	01/15/19 10:37	01/15/19 14:24
440-230161-32	SB7-2.5	Solid	01/15/19 10:35	01/15/19 14:24
440-230161-34	SB7-10	Solid	01/15/19 10:39	01/15/19 14:24
440-230161-36	SB8-0.5	Solid	01/15/19 09:05	01/15/19 14:24
440-230161-37	SB8-2.5	Solid	01/15/19 09:03	01/15/19 14:24
440-230161-39	SB8-10	Solid	01/15/19 09:07	01/15/19 14:24
440-230161-43	SB9-0.5	Solid	01/15/19 09:35	01/15/19 14:24
440-230161-44	SB9-2.5	Solid	01/15/19 09:33	01/15/19 14:24
440-230161-45	SB9-5	Solid	01/15/19 09:30	01/15/19 14:24
440-230161-46	SB9-10	Solid	01/15/19 09:37	01/15/19 14:24
440-230161-48	SB9-20	Solid	01/15/19 09:41	01/15/19 14:24
440-230161-49	SB9-25	Solid	01/15/19 09:43	01/15/19 14:24
440-230161-50	SB9-30	Solid	01/15/19 09:57	01/15/19 14:24
440-230161-51	SB9-35	Solid	01/15/19 09:59	01/15/19 14:24

TestAmerica Irvine

Case Narrative

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Job ID: 440-230161-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-230161-1

Comments

No additional comments.

Receipt

The samples were received on 1/15/2019 2:24 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limit: SB7-2.5 (440-230161-32). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-523324 recovered above the upper control limit for 1,1-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB1-2.5 (440-230161-2), SB2-2.5 (440-230161-7), SB3-2.5 (440-230161-12), SB4-2.5 (440-230161-17), SB6-2.5 (440-230161-27) and (CCVIS 440-523324/2).

Method(s) 8260B: Surrogate recovery for the following sample was outside control limits: 4-Bromofluorobenzene and Dibromofluoromethane are high. SB6-5 (440-230161-28). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (24.83%=50-200), and Chlorobenzene-d5 (47.46%=50-200) response for the following sample was outside control limits: SB6-2.5 (440-230161-27). The sample(s) was re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported.

Method(s) 8260B: Surrogate 4-Bromofluorobenzene (161%=79-120), Dibromofluoromethane (121%=60-120), and Toluene-d8 (138% =79-123) recovery for the following sample was outside control limits: SB6-2.5 (440-230161-27). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: SB6-2.5 (440-230161-27) and SB6-5 (440-230161-28). Re-analysis was performed with concurring results. This analysis has been reported.

Method(s) 8015B: Surrogate recovery for the following sample was outside control limits: SB9-5 (440-230161-45). Evidence of matrix interference is present; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The 8015-DRO method blank for preparation batch 440-522725 and 440-522727 and analytical batch 440-522739 contained C23-C40 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8015B: The following 8015-DRO sample required a dilution due to the nature of the sample matrix: SB6-2.5 (440-230161-27). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Case Narrative

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Job ID: 440-230161-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Method(s) 8015B: The following 8015-DRO sample required a dilution due to the nature of the sample matrix: SB6-5 (440-230161-28). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Antimony for preparation batch 440-523104 and analytical batch 440-523631 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: SB6-2.5 (440-230161-27), SB6-5 (440-230161-28), SB7-2.5 (440-230161-32) and SB9-10 (440-230161-46). The reporting limits (RLs) are elevated proportionately. 440-522725 3546 8015_DRO

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-230161-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-230161-2

Comments

No additional comments.

Receipt

The samples were received on 1/15/2019 2:24 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525292 and analytical batch 440-525506 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8015B: The 8015-DRO method blank for preparation batch 440-525292 and analytical batch 440-525506 contained C23-C40 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Job ID: 440-230161-2 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB1-0.5

Lab Sample ID: 440-230161-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	76		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.42	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.85		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	20		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	7.4		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	50		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	17		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	15		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	42		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	65		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.037		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB1-2.5

Lab Sample ID: 440-230161-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	4.1	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Barium	15		1.5	0.74	mg/Kg	5		6010B	Total/NA
Chromium	3.9		0.98	0.49	mg/Kg	5		6010B	Total/NA
Cobalt	1.4		0.98	0.49	mg/Kg	5		6010B	Total/NA
Copper	9.7		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	3.2		2.0	0.98	mg/Kg	5		6010B	Total/NA
Nickel	3.1		2.0	0.98	mg/Kg	5		6010B	Total/NA
Vanadium	8.3		0.98	0.49	mg/Kg	5		6010B	Total/NA
Zinc	13		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.015	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB1-10

Lab Sample ID: 440-230161-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.9	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	4.1	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB2-0.5

Lab Sample ID: 440-230161-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	15		1.5	0.74	mg/Kg	5		6010B	Total/NA
Chromium	4.2		0.99	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	1.6		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	4.9		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	1.4	J	2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	2.3		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	11		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	13		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.038		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB2-2.5

Lab Sample ID: 440-230161-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	4.2	J	4.9	2.5	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB2-2.5 (Continued)

Lab Sample ID: 440-230161-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	8.4	B	4.9	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	2.8	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	57		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.27	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.39	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Chromium	15		0.99	0.49	mg/Kg	5		6010B	Total/NA
Cobalt	5.2		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	38		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	9.4		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	33		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	49		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.022		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB2-10

Lab Sample ID: 440-230161-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.4	J B	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB3-0.5

Lab Sample ID: 440-230161-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	32		1.5	0.75	mg/Kg	5		6010B	Total/NA
Chromium	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	3.2		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	9.4		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	3.7		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	5.3		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	26		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	29		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.036		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB3-2.5

Lab Sample ID: 440-230161-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.5	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	12	B	4.9	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	1.9	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	50		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.31	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.27	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Chromium	14		0.99	0.49	mg/Kg	5		6010B	Total/NA
Cobalt	4.5		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	34		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	8.1		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	30		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	41		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.019	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB3-10

Lab Sample ID: 440-230161-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	7.1	B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB4-0.5

Lab Sample ID: 440-230161-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	20		1.5	0.75	mg/Kg	5		6010B	Total/NA
Chromium	8.4		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	2.0		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	4.9		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	1.2	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	2.9		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	21		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	17		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.071		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB4-2.5

Lab Sample ID: 440-230161-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	6.8	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Arsenic	3.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	65		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.41	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.57		0.49	0.25	mg/Kg	5		6010B	Total/NA
Chromium	17		0.99	0.49	mg/Kg	5		6010B	Total/NA
Cobalt	5.0		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	44		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	17		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	1.3	J	2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	11		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	35		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	56		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.012	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB4-10

Lab Sample ID: 440-230161-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	3.2	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	5.3	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB5-0.5

Lab Sample ID: 440-230161-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	22		1.5	0.75	mg/Kg	5		6010B	Total/NA
Chromium	6.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	1.9		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	3.9		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	1.6	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	3.2		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	18		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	17		5.0	2.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB5-0.5 (Continued)

Lab Sample ID: 440-230161-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.015	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB5-2.5

Lab Sample ID: 440-230161-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.5	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	10	B	4.9	2.5	mg/Kg	1		8015B	Total/NA
Barium	14		1.5	0.75	mg/Kg	5		6010B	Total/NA
Chromium	5.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	1.5		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	14		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	1.7	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	2.7		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	14		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	14		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.017	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB5-10

Lab Sample ID: 440-230161-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.6	J B	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-0.5

Lab Sample ID: 440-230161-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	20		1.5	0.75	mg/Kg	5		6010B	Total/NA
Chromium	8.0		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	2.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	11		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	1.3	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Molybdenum	1.0	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	2.6		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	17		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	16		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.037		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB6-2.5

Lab Sample ID: 440-230161-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.9	J	20	4.9	ug/Kg	1		8260B	Total/NA
C13-C22	1600		200	100	mg/Kg	20		8015B	Total/NA
C23-C40	4100	B	200	100	mg/Kg	20		8015B	Total/NA
Arsenic	2.7	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	53		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.28	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.43	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	14		0.99	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	5.2		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	35		2.0	1.1	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-2.5 (Continued)

Lab Sample ID: 440-230161-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	9.3		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	31		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	43		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.024		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB6-5

Lab Sample ID: 440-230161-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	1800		99	50	mg/Kg	10		8015B	Total/NA
C23-C40	3100	B	99	50	mg/Kg	10		8015B	Total/NA

Client Sample ID: SB6-10

Lab Sample ID: 440-230161-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.8	J	4.9	2.4	mg/Kg	1		8015B	Total/NA
C23-C40	4.3	J B	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB7-0.5

Lab Sample ID: 440-230161-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	25		1.5	0.76	mg/Kg	5		6010B	Total/NA
Chromium	6.0		1.0	0.51	mg/Kg	5		6010B	Total/NA
Cobalt	1.9		1.0	0.51	mg/Kg	5		6010B	Total/NA
Copper	4.2		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	3.3		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	15		1.0	0.51	mg/Kg	5		6010B	Total/NA
Zinc	19		5.1	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.017	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB7-2.5

Lab Sample ID: 440-230161-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	86		9.9	5.0	mg/Kg	1		8015B	Total/NA
C23-C40	820	B	9.9	5.0	mg/Kg	1		8015B	Total/NA
Arsenic	8.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	51		1.5	0.74	mg/Kg	5		6010B	Total/NA
Cadmium	0.34	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Chromium	11		0.99	0.49	mg/Kg	5		6010B	Total/NA
Cobalt	2.5		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	15		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	19		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	1.7	J	2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	6.6		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	20		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	74		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.016	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB7-10

Lab Sample ID: 440-230161-34

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB7-10 (Continued)

Lab Sample ID: 440-230161-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.7	J	4.9	2.4	mg/Kg	1		8015B	Total/NA
C23-C40	10	B	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB8-0.5

Lab Sample ID: 440-230161-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	27		1.5	0.75	mg/Kg	5		6010B	Total/NA
Chromium	5.9		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	2.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	10		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	6.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	3.5		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	16		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	29		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.036		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB8-2.5

Lab Sample ID: 440-230161-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	8.9	B	4.9	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.35	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	2.5		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	28		0.99	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	3.3		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	8.2		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	4.4		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	2.2		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	21		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	34		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	26		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.013	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB8-10

Lab Sample ID: 440-230161-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.2	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB9-0.5

Lab Sample ID: 440-230161-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	12		5.0	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	50	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	5.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	90		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.27	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	1.3		0.49	0.25	mg/Kg	5		6010B	Total/NA
Chromium	25		0.99	0.49	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-0.5 (Continued)

Lab Sample ID: 440-230161-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	3.0		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	9.7		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	4.8		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	1.6	J	2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	17		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	32		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	30		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.029		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB9-2.5

Lab Sample ID: 440-230161-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	8.3		5.0	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	20	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	4.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	73		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.79		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	17		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	2.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	15		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	1.0	mg/Kg	5		6010B	Total/NA
Molybdenum	1.4	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	12		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	25		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	46		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.023		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB9-5

Lab Sample ID: 440-230161-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	260000		80000	40000	ug/Kg	200		8015B	Total/NA
C13-C22	5.2		5.0	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	9.0	B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB9-10

Lab Sample ID: 440-230161-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	23		9.9	4.9	mg/Kg	1		8015B	Total/NA
C23-C40	180	B	9.9	4.9	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB9-20

Lab Sample ID: 440-230161-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.6	J B	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB9-25

Lab Sample ID: 440-230161-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.9		2.0	0.99	ug/Kg	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.3	J	2.0	0.99	ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-25 (Continued)

Lab Sample ID: 440-230161-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	480		400	150	ug/Kg	1		8015B	Total/NA
C13-C22	3.3	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	7.0	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB9-30

Lab Sample ID: 440-230161-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	3.0	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	5.4	B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB9-35

Lab Sample ID: 440-230161-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.5	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	4.4	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB1-0.5

Date Collected: 01/15/19 07:45

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	10	5.0	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Arsenic	2.2	J	3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Barium	76		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Beryllium	0.42	J	0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Cadmium	0.85		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Chromium	20		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Cobalt	7.4		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Copper	50		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Lead	17		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Nickel	15		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Vanadium	42		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Zinc	65		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 22:21	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 22:21	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:18	1

Client Sample ID: SB1-2.5

Date Collected: 01/15/19 07:47

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,1-Dichloroethene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,2,3-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			01/18/19 14:57	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/18/19 14:57	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
2-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
4-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB1-2.5

Date Collected: 01/15/19 07:47

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Bromobenzene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Bromochloromethane	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Bromoform	ND		5.0	2.0	ug/Kg			01/18/19 14:57	1
Bromomethane	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Carbon tetrachloride	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/18/19 14:57	1
Chloroform	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Chloromethane	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/18/19 14:57	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Hexachlorobutadiene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/18/19 14:57	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/18/19 14:57	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/18/19 14:57	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
sec-Butylbenzene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Styrene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
tert-Butylbenzene	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Toluene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1
Trichlorofluoromethane	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Vinyl chloride	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/18/19 14:57	1
Isopropyl Ether (DIPE)	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.99	ug/Kg			01/18/19 14:57	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/18/19 14:57	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			01/18/19 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	120		79 - 123		01/18/19 14:57	1
4-Bromofluorobenzene (Surr)	109		79 - 120		01/18/19 14:57	1
Dibromofluoromethane (Surr)	100		60 - 120		01/18/19 14:57	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB1-2.5

Date Collected: 01/15/19 07:47

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-2

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/17/19 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		65 - 140					01/17/19 19:14	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 00:20	1
C23-C40	4.1	J B	5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	93		40 - 140				01/16/19 07:11	01/17/19 00:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	4.9	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Arsenic	ND		2.9	1.5	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Barium	15		1.5	0.74	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Beryllium	ND		0.49	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Cadmium	ND		0.49	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Chromium	3.9		0.98	0.49	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Cobalt	1.4		0.98	0.49	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Copper	9.7		2.0	1.1	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Lead	3.2		2.0	0.98	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Molybdenum	ND		2.0	0.98	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Nickel	3.1		2.0	0.98	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Selenium	ND		2.9	1.7	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Thallium	ND		9.8	4.9	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Vanadium	8.3		0.98	0.49	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Zinc	13		4.9	2.5	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5
Silver	ND		1.5	0.87	mg/Kg	-	01/17/19 10:53	01/18/19 22:44	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.012	mg/Kg	-	01/18/19 11:28	01/18/19 16:22	1

Client Sample ID: SB1-10

Date Collected: 01/15/19 07:54

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-4

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/17/19 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		65 - 140					01/17/19 20:35	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.9	J	4.9	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 01:21	1
C23-C40	4.1	J B	4.9	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 01:21	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB1-10

Date Collected: 01/15/19 07:54

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	88		40 - 140	01/16/19 07:11	01/17/19 01:21	1

Client Sample ID: SB2-0.5

Date Collected: 01/15/19 08:25

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Arsenic	ND		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Barium	15		1.5	0.74	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Cadmium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Chromium	4.2		0.99	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Cobalt	1.6		0.99	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Copper	4.9		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Lead	1.4 J		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Nickel	2.3		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Thallium	ND		9.9	5.0	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Vanadium	11		0.99	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Zinc	13		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 22:47	5
Silver	ND		1.5	0.88	mg/Kg		01/17/19 10:53	01/18/19 22:47	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.012	mg/Kg		01/18/19 11:35	01/18/19 17:00	1

Client Sample ID: SB2-2.5

Date Collected: 01/15/19 08:27

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/18/19 17:20	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/18/19 17:20	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB2-2.5

Date Collected: 01/15/19 08:27

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Benzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Bromoform	ND		5.0	2.0	ug/Kg			01/18/19 17:20	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/18/19 17:20	1
Chloroform	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/18/19 17:20	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/18/19 17:20	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/18/19 17:20	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/18/19 17:20	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
o-Xylene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Styrene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Toluene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/18/19 17:20	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			01/18/19 17:20	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			01/18/19 17:20	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB2-2.5

Date Collected: 01/15/19 08:27

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			01/18/19 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	123		79 - 123					01/18/19 17:20	1
4-Bromofluorobenzene (Surr)	115		79 - 120					01/18/19 17:20	1
Dibromofluoromethane (Surr)	96		60 - 120					01/18/19 17:20	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/17/19 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		65 - 140					01/17/19 21:01	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	4.2	J	4.9	2.5	mg/Kg		01/16/19 07:11	01/16/19 23:25	1
C23-C40	8.4	B	4.9	2.5	mg/Kg		01/16/19 07:11	01/16/19 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	83		40 - 140				01/16/19 07:11	01/16/19 23:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Arsenic	2.8	J	3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Barium	57		1.5	0.74	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Beryllium	0.27	J	0.49	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Cadmium	0.39	J	0.49	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Chromium	15		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Cobalt	5.2		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Copper	38		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Lead	12		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Nickel	9.4		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Thallium	ND		9.9	4.9	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Vanadium	33		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Zinc	49		4.9	2.5	mg/Kg		01/17/19 10:53	01/18/19 22:51	5
Silver	ND		1.5	0.88	mg/Kg		01/17/19 10:53	01/18/19 22:51	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:33	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB2-10

Date Collected: 01/15/19 08:33

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-9

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/17/19 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		65 - 140					01/17/19 21:28	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.4	mg/Kg	-	01/16/19 07:11	01/17/19 01:41	1
C23-C40	3.4	J B	4.9	2.4	mg/Kg	-	01/16/19 07:11	01/17/19 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	88		40 - 140			-	01/16/19 07:11	01/17/19 01:41	1

Client Sample ID: SB3-0.5

Date Collected: 01/15/19 11:15

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Arsenic	ND		3.0	1.5	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Barium	32		1.5	0.75	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Beryllium	ND		0.50	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Cadmium	ND		0.50	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Chromium	11		1.0	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Cobalt	3.2		1.0	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Copper	9.4		2.0	1.1	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Lead	3.7		2.0	1.0	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Molybdenum	ND		2.0	1.0	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Nickel	5.3		2.0	1.0	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Selenium	ND		3.0	1.7	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Thallium	ND		10	5.0	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Vanadium	26		1.0	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Zinc	29		5.0	2.5	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5
Silver	ND		1.5	0.89	mg/Kg	-	01/17/19 10:53	01/18/19 22:54	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.012	mg/Kg	-	01/18/19 11:28	01/18/19 16:36	1

Client Sample ID: SB3-2.5

Date Collected: 01/15/19 11:13

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9	0.99	ug/Kg	-		01/18/19 17:48	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg	-		01/18/19 17:48	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg	-		01/18/19 17:48	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg	-		01/18/19 17:48	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg	-		01/18/19 17:48	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB3-2.5

Date Collected: 01/15/19 11:13

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,2,3-Trichlorobenzene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			01/18/19 17:48	1
1,2,4-Trichlorobenzene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.0	ug/Kg			01/18/19 17:48	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
2-Chlorotoluene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
4-Chlorotoluene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Benzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Bromobenzene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Bromochloromethane	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Bromoform	ND		4.9	2.0	ug/Kg			01/18/19 17:48	1
Bromomethane	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Carbon tetrachloride	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Chloroethane	ND		4.9	2.0	ug/Kg			01/18/19 17:48	1
Chloroform	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Chloromethane	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Dichlorodifluoromethane	ND		4.9	2.0	ug/Kg			01/18/19 17:48	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Hexachlorobutadiene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/18/19 17:48	1
Methylene Chloride	ND		20	4.9	ug/Kg			01/18/19 17:48	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Naphthalene	ND		4.9	2.0	ug/Kg			01/18/19 17:48	1
n-Butylbenzene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
sec-Butylbenzene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Styrene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Tert-amyl-methyl ether (TAME)	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
tert-Butylbenzene	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB3-2.5

Date Collected: 01/15/19 11:13

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1
Trichlorofluoromethane	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Vinyl chloride	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/18/19 17:48	1
Isopropyl Ether (DIPE)	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
Ethyl-t-butyl ether (ETBE)	ND		4.9	0.99	ug/Kg			01/18/19 17:48	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/18/19 17:48	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			01/18/19 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	122		79 - 123		01/18/19 17:48	1
4-Bromofluorobenzene (Surr)	115		79 - 120		01/18/19 17:48	1
Dibromofluoromethane (Surr)	98		60 - 120		01/18/19 17:48	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/17/19 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		65 - 140		01/17/19 21:54	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.5	J	4.9	2.5	mg/Kg		01/16/19 07:11	01/17/19 02:37	1
C23-C40	12	B	4.9	2.5	mg/Kg		01/16/19 07:11	01/17/19 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	88		40 - 140	01/16/19 07:11	01/17/19 02:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Arsenic	1.9	J	3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Barium	50		1.5	0.74	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Beryllium	0.31	J	0.49	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Cadmium	0.27	J	0.49	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Chromium	14		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Cobalt	4.5		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Copper	34		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Lead	11		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Nickel	8.1		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Thallium	ND		9.9	4.9	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Vanadium	30		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Zinc	41		4.9	2.5	mg/Kg		01/17/19 10:53	01/18/19 22:57	5
Silver	ND		1.5	0.88	mg/Kg		01/17/19 10:53	01/18/19 22:57	5

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB3-2.5

Date Collected: 01/15/19 11:13

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-12

Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.012	mg/Kg	-	01/18/19 11:28	01/18/19 16:34	1

Client Sample ID: SB3-10

Date Collected: 01/15/19 11:16

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-14

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/17/19 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		65 - 140		01/17/19 22:21	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 02:01	1
C23-C40	7.1	B	5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	84		40 - 140	01/16/19 07:11	01/17/19 02:01	1

Client Sample ID: SB4-0.5

Date Collected: 01/15/19 11:33

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Arsenic	ND		3.0	1.5	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Barium	20		1.5	0.75	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Beryllium	ND		0.50	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Cadmium	ND		0.50	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Chromium	8.4		1.0	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Cobalt	2.0		1.0	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Copper	4.9		2.0	1.1	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Lead	1.2	J	2.0	1.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Molybdenum	ND		2.0	1.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Nickel	2.9		2.0	1.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Selenium	ND		3.0	1.7	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Thallium	ND		10	5.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Vanadium	21		1.0	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Zinc	17		5.0	2.5	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5
Silver	ND		1.5	0.89	mg/Kg	-	01/17/19 10:53	01/18/19 23:00	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.020	0.012	mg/Kg	-	01/18/19 11:28	01/18/19 16:13	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB4-2.5

Date Collected: 01/15/19 11:32

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-17

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,1-Dichloroethene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,2,3-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			01/18/19 18:16	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/18/19 18:16	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
2-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
4-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Benzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Bromobenzene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Bromochloromethane	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Bromoform	ND		5.0	2.0	ug/Kg			01/18/19 18:16	1
Bromomethane	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Carbon tetrachloride	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/18/19 18:16	1
Chloroform	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Chloromethane	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/18/19 18:16	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Hexachlorobutadiene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/18/19 18:16	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/18/19 18:16	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/18/19 18:16	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB4-2.5

Date Collected: 01/15/19 11:32

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-17

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Styrene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
tert-Butylbenzene	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Toluene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1
Trichlorofluoromethane	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Vinyl chloride	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/18/19 18:16	1
Isopropyl Ether (DIPE)	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.99	ug/Kg			01/18/19 18:16	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/18/19 18:16	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			01/18/19 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	121		79 - 123		01/18/19 18:16	1
4-Bromofluorobenzene (Surr)	114		79 - 120		01/18/19 18:16	1
Dibromofluoromethane (Surr)	102		60 - 120		01/18/19 18:16	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/17/19 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		65 - 140		01/17/19 22:48	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.4	mg/Kg		01/16/19 07:11	01/16/19 23:46	1
C23-C40	6.8	B	4.9	2.4	mg/Kg		01/16/19 07:11	01/16/19 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	83		40 - 140	01/16/19 07:11	01/16/19 23:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Arsenic	3.5		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Barium	65		1.5	0.74	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Beryllium	0.41	J	0.49	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Cadmium	0.57		0.49	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Chromium	17		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Cobalt	5.0		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Copper	44		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Lead	17		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Molybdenum	1.3	J	2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Nickel	11		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:04	5

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB4-2.5

Date Collected: 01/15/19 11:32

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-17

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		9.9	4.9	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Vanadium	35		0.99	0.49	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Zinc	56		4.9	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:04	5
Silver	ND		1.5	0.88	mg/Kg		01/17/19 10:53	01/18/19 23:04	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:26	1

Client Sample ID: SB4-10

Date Collected: 01/15/19 11:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-19

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/17/19 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		65 - 140					01/17/19 23:15	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	3.2	J	4.9	2.5	mg/Kg		01/16/19 07:11	01/17/19 02:22	1
C23-C40	5.3	B	4.9	2.5	mg/Kg		01/16/19 07:11	01/17/19 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	87		40 - 140				01/16/19 07:11	01/17/19 02:22	1

Client Sample ID: SB5-0.5

Date Collected: 01/15/19 10:55

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Arsenic	ND		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Barium	22		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Cadmium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Chromium	6.6		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Cobalt	1.9		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Copper	3.9		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Lead	1.6	J	2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Nickel	3.2		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Vanadium	18		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Zinc	17		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:07	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 23:07	5

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB5-0.5

Date Collected: 01/15/19 10:55

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-21

Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:27	1

Client Sample ID: SB5-2.5

Date Collected: 01/15/19 10:53

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,1-Dichloroethene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,2,3-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			01/19/19 13:37	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/19/19 13:37	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
2-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
4-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Benzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Bromobenzene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Bromochloromethane	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Bromoform	ND		5.0	2.0	ug/Kg			01/19/19 13:37	1
Bromomethane	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Carbon tetrachloride	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/19/19 13:37	1
Chloroform	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Chloromethane	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/19/19 13:37	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Hexachlorobutadiene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB5-2.5

Date Collected: 01/15/19 10:53

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/19/19 13:37	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/19/19 13:37	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/19/19 13:37	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
sec-Butylbenzene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Styrene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
tert-Butylbenzene	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Toluene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1
Trichlorofluoromethane	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Vinyl chloride	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/19/19 13:37	1
Isopropyl Ether (DIPE)	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.99	ug/Kg			01/19/19 13:37	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/19/19 13:37	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			01/19/19 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		79 - 123		01/19/19 13:37	1
4-Bromofluorobenzene (Surr)	110		79 - 120		01/19/19 13:37	1
Dibromofluoromethane (Surr)	112		60 - 120		01/19/19 13:37	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 00:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		65 - 140		01/18/19 00:35	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.5	J	4.9	2.5	mg/Kg		01/16/19 07:11	01/17/19 02:59	1
C23-C40	10	B	4.9	2.5	mg/Kg		01/16/19 07:11	01/17/19 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	81		40 - 140	01/16/19 07:11	01/17/19 02:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Arsenic	ND		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Barium	14		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:10	5

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB5-2.5

Date Collected: 01/15/19 10:53

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-22

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Chromium	5.1		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Cobalt	1.5		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Copper	14		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Lead	1.7	J	2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Nickel	2.7		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Vanadium	14		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Zinc	14		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:10	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 23:10	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:15	1

Client Sample ID: SB5-10

Date Collected: 01/15/19 10:57

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-24

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		65 - 140					01/18/19 01:02	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.4	mg/Kg		01/16/19 07:11	01/17/19 02:42	1
C23-C40	3.6	J B	4.9	2.4	mg/Kg		01/16/19 07:11	01/17/19 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	95		40 - 140				01/16/19 07:11	01/17/19 02:42	1

Client Sample ID: SB6-0.5

Date Collected: 01/15/19 08:07

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Arsenic	1.5	J	3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Barium	20		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Cadmium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Chromium	8.0		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Cobalt	2.1		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Copper	11		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Lead	1.3	J	2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:20	5

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-0.5

Date Collected: 01/15/19 08:07

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-26

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	1.0	J	2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Nickel	2.6		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Vanadium	17		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Zinc	16		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:20	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 23:20	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:24	1

Client Sample ID: SB6-2.5

Date Collected: 01/15/19 08:10

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-27

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
1,1,1-Trichloroethane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
1,1,2,2-Tetrachloroethane	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,1,2-Trichloroethane	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,1-Dichloroethane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
1,1-Dichloroethene	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
1,1-Dichloropropene	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
1,2,3-Trichlorobenzene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
1,2,3-Trichloropropane	ND	*	9.8	0.98	ug/Kg			01/18/19 18:45	1
1,2,4-Trichlorobenzene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
1,2,4-Trimethylbenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,2-Dibromo-3-Chloropropane	ND	*	4.9	2.0	ug/Kg			01/18/19 18:45	1
1,2-Dibromoethane (EDB)	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,2-Dichlorobenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,2-Dichloroethane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
1,2-Dichloropropane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
1,3,5-Trimethylbenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,3-Dichlorobenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,3-Dichloropropane	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
1,4-Dichlorobenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
2,2-Dichloropropane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
2-Chlorotoluene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
4-Chlorotoluene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
Benzene	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
Bromobenzene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
Bromochloromethane	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Bromodichloromethane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
Bromoform	ND	*	4.9	2.0	ug/Kg			01/18/19 18:45	1
Bromomethane	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Carbon tetrachloride	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Chlorobenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Chloroethane	ND		4.9	2.0	ug/Kg			01/18/19 18:45	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-2.5

Date Collected: 01/15/19 08:10

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-27

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
Chloromethane	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
cis-1,2-Dichloroethene	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
cis-1,3-Dichloropropene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Dibromochloromethane	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Dibromomethane	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
Dichlorodifluoromethane	ND		4.9	2.0	ug/Kg			01/18/19 18:45	1
Ethylbenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Hexachlorobutadiene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
Isopropylbenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
m,p-Xylene	ND	*	3.9	2.0	ug/Kg			01/18/19 18:45	1
Methylene Chloride	4.9	J	20	4.9	ug/Kg			01/18/19 18:45	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Naphthalene	ND	*	4.9	2.0	ug/Kg			01/18/19 18:45	1
n-Butylbenzene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
N-Propylbenzene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
o-Xylene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
sec-Butylbenzene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
Styrene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Tert-amyl-methyl ether (TAME)	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
tert-Butylbenzene	ND	*	4.9	0.98	ug/Kg			01/18/19 18:45	1
Tetrachloroethene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Toluene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
trans-1,2-Dichloroethene	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
trans-1,3-Dichloropropene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1
Trichloroethene	ND		2.0	0.98	ug/Kg			01/18/19 18:45	1
Trichlorofluoromethane	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Vinyl chloride	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Xylenes, Total	ND	*	3.9	2.0	ug/Kg			01/18/19 18:45	1
Isopropyl Ether (DIPE)	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
Ethyl-t-butyl ether (ETBE)	ND		4.9	0.98	ug/Kg			01/18/19 18:45	1
tert-Butyl alcohol (TBA)	ND		98	9.8	ug/Kg			01/18/19 18:45	1
p-Isopropyltoluene	ND	*	2.0	0.98	ug/Kg			01/18/19 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	138	* X	79 - 123		01/18/19 18:45	1
4-Bromofluorobenzene (Surr)	161	* X	79 - 120		01/18/19 18:45	1
Dibromofluoromethane (Surr)	121	X	60 - 120		01/18/19 18:45	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	X	65 - 140		01/18/19 16:44	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	1600		200	100	mg/Kg		01/16/19 07:11	01/17/19 09:56	20
C23-C40	4100	B	200	100	mg/Kg		01/16/19 07:11	01/17/19 09:56	20

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-2.5

Date Collected: 01/15/19 08:10

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-27

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	175	X	40 - 140	01/16/19 07:11	01/17/19 09:56	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Arsenic	2.7	J	3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Barium	53		1.5	0.74	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Beryllium	0.28	J	0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Cadmium	0.43	J	0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Chromium	14		0.99	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Cobalt	5.2		0.99	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Copper	35		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Lead	11		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Nickel	9.3		2.0	0.99	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Thallium	ND		9.9	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Vanadium	31		0.99	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Zinc	43		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:24	5
Silver	ND		1.5	0.88	mg/Kg		01/17/19 10:53	01/18/19 23:24	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:17	1

Client Sample ID: SB6-5

Date Collected: 01/15/19 08:15

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-28

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,1,2,2-Tetrachloroethane	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,1-Dichloroethene	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,2,3-Trichlorobenzene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
1,2,3-Trichloropropane	ND	*	9.9	0.99	ug/Kg			01/19/19 18:13	1
1,2,4-Trichlorobenzene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
1,2,4-Trimethylbenzene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
1,2-Dibromo-3-Chloropropane	ND	*	4.9	2.0	ug/Kg			01/19/19 18:13	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,2-Dichlorobenzene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
1,3,5-Trimethylbenzene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
1,3-Dichlorobenzene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-5
Date Collected: 01/15/19 08:15
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-28
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
2-Chlorotoluene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
4-Chlorotoluene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
Benzene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Bromobenzene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
Bromochloromethane	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Bromoform	ND		4.9	2.0	ug/Kg			01/19/19 18:13	1
Bromomethane	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Carbon tetrachloride	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Chloroethane	ND		4.9	2.0	ug/Kg			01/19/19 18:13	1
Chloroform	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Chloromethane	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Dichlorodifluoromethane	ND		4.9	2.0	ug/Kg			01/19/19 18:13	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Hexachlorobutadiene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
m,p-Xylene	ND		3.9	2.0	ug/Kg			01/19/19 18:13	1
Methylene Chloride	ND		20	4.9	ug/Kg			01/19/19 18:13	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Naphthalene	ND	*	4.9	2.0	ug/Kg			01/19/19 18:13	1
n-Butylbenzene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
N-Propylbenzene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
sec-Butylbenzene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
Styrene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Tert-amyl-methyl ether (TAME)	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
tert-Butylbenzene	ND	*	4.9	0.99	ug/Kg			01/19/19 18:13	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Toluene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 18:13	1
Trichlorofluoromethane	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Vinyl chloride	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Xylenes, Total	ND		3.9	2.0	ug/Kg			01/19/19 18:13	1
Isopropyl Ether (DIPE)	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
Ethyl-t-butyl ether (ETBE)	ND		4.9	0.99	ug/Kg			01/19/19 18:13	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/19/19 18:13	1
p-Isopropyltoluene	ND	*	2.0	0.99	ug/Kg			01/19/19 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	119		79 - 123		01/19/19 18:13	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-5
Date Collected: 01/15/19 08:15
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-28
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	X *	79 - 120		01/19/19 18:13	1
Dibromofluoromethane (Surr)	121	X	60 - 120		01/19/19 18:13	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/18/19 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	48	X	65 - 140					01/18/19 17:12	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	1800		99	50	mg/Kg		01/16/19 07:11	01/17/19 11:03	10
C23-C40	3100	B	99	50	mg/Kg		01/16/19 07:11	01/17/19 11:03	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	69		40 - 140				01/16/19 07:11	01/17/19 11:03	10

Client Sample ID: SB6-10
Date Collected: 01/15/19 08:40
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-29
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/18/19 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		65 - 140					01/18/19 16:16	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.8	J	4.9	2.4	mg/Kg		01/16/19 07:11	01/17/19 03:02	1
C23-C40	4.3	J B	4.9	2.4	mg/Kg		01/16/19 07:11	01/17/19 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	95		40 - 140				01/16/19 07:11	01/17/19 03:02	1

Client Sample ID: SB7-0.5
Date Collected: 01/15/19 10:37
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-31
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.1	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Arsenic	ND		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Barium	25		1.5	0.76	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Beryllium	ND		0.51	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Cadmium	ND		0.51	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Chromium	6.0		1.0	0.51	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Cobalt	1.9		1.0	0.51	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Copper	4.2		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:27	5

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB7-0.5

Date Collected: 01/15/19 10:37

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-31

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Nickel	3.3		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Thallium	ND		10	5.1	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Vanadium	15		1.0	0.51	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Zinc	19		5.1	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:27	5
Silver	ND		1.5	0.90	mg/Kg		01/17/19 10:53	01/18/19 23:27	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.012	mg/Kg		01/18/19 11:35	01/18/19 16:56	1

Client Sample ID: SB7-2.5

Date Collected: 01/15/19 10:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-32

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/19/19 18:41	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/19/19 18:41	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Benzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Bromoform	ND		5.0	2.0	ug/Kg			01/19/19 18:41	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB7-2.5

Date Collected: 01/15/19 10:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-32

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	2.0	ug/Kg			01/19/19 18:41	1
Chloroform	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/19/19 18:41	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/19/19 18:41	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/19/19 18:41	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/19/19 18:41	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
o-Xylene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Styrene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Toluene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/19/19 18:41	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			01/19/19 18:41	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			01/19/19 18:41	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			01/19/19 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		79 - 123		01/19/19 18:41	1
4-Bromofluorobenzene (Surr)	135	X	79 - 120		01/19/19 18:41	1
Dibromofluoromethane (Surr)	111		60 - 120		01/19/19 18:41	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		65 - 140		01/18/19 17:40	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	86		9.9	5.0	mg/Kg		01/16/19 07:11	01/17/19 01:33	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB7-2.5

Date Collected: 01/15/19 10:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-32

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C23-C40	820	B	9.9	5.0	mg/Kg	—	01/16/19 07:11	01/17/19 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n-Octacosane</i>	85		40 - 140				01/16/19 07:11	01/17/19 01:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Arsenic	8.1		3.0	1.5	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Barium	51		1.5	0.74	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Beryllium	ND		0.49	0.25	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Cadmium	0.34	J	0.49	0.25	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Chromium	11		0.99	0.49	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Cobalt	2.5		0.99	0.49	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Copper	15		2.0	1.1	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Lead	19		2.0	0.99	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Molybdenum	1.7	J	2.0	0.99	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Nickel	6.6		2.0	0.99	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Selenium	ND		3.0	1.7	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Thallium	ND		9.9	4.9	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Vanadium	20		0.99	0.49	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Zinc	74		4.9	2.5	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5
Silver	ND		1.5	0.88	mg/Kg	—	01/17/19 10:53	01/18/19 23:30	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.020	0.012	mg/Kg	—	01/18/19 11:28	01/18/19 16:38	1

Client Sample ID: SB7-10

Date Collected: 01/15/19 10:39

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-34

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	—		01/18/19 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	89		65 - 140					01/18/19 18:08	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.7	J	4.9	2.4	mg/Kg	—	01/16/19 07:11	01/17/19 00:08	1
C23-C40	10	B	4.9	2.4	mg/Kg	—	01/16/19 07:11	01/17/19 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n-Octacosane</i>	87		40 - 140				01/16/19 07:11	01/17/19 00:08	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB8-0.5

Date Collected: 01/15/19 09:05

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Arsenic	1.7	J	3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Barium	27		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Cadmium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Chromium	5.9		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Cobalt	2.1		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Copper	10		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Lead	6.4		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Nickel	3.5		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Vanadium	16		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Zinc	29		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:34	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 23:34	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 16:40	1

Client Sample ID: SB8-2.5

Date Collected: 01/15/19 09:03

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-37

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,1-Dichloroethene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,2,3-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			01/19/19 19:09	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/19/19 19:09	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
2-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
4-Chlorotoluene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB8-2.5

Date Collected: 01/15/19 09:03

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-37

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Bromobenzene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Bromochloromethane	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Bromoform	ND		5.0	2.0	ug/Kg			01/19/19 19:09	1
Bromomethane	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Carbon tetrachloride	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/19/19 19:09	1
Chloroform	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Chloromethane	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/19/19 19:09	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Hexachlorobutadiene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/19/19 19:09	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/19/19 19:09	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/19/19 19:09	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
sec-Butylbenzene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Styrene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
tert-Butylbenzene	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Toluene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1
Trichlorofluoromethane	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Vinyl chloride	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/19/19 19:09	1
Isopropyl Ether (DIPE)	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.99	ug/Kg			01/19/19 19:09	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/19/19 19:09	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			01/19/19 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		79 - 123		01/19/19 19:09	1
4-Bromofluorobenzene (Surr)	116		79 - 120		01/19/19 19:09	1
Dibromofluoromethane (Surr)	109		60 - 120		01/19/19 19:09	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB8-2.5

Date Collected: 01/15/19 09:03

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-37

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/18/19 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		65 - 140					01/18/19 18:36	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 03:20	1
C23-C40	8.9	B	4.9	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140				01/16/19 07:11	01/17/19 03:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Arsenic	6.8		3.0	1.5	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Barium	120		1.5	0.74	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Beryllium	0.35	J	0.50	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Cadmium	2.5		0.50	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Chromium	28		0.99	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Cobalt	3.3		0.99	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Copper	8.2		2.0	1.1	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Lead	4.4		2.0	0.99	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Molybdenum	2.2		2.0	0.99	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Nickel	21		2.0	0.99	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Selenium	ND		3.0	1.7	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Thallium	ND		9.9	5.0	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Vanadium	34		0.99	0.50	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Zinc	26		5.0	2.5	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5
Silver	ND		1.5	0.88	mg/Kg	-	01/17/19 10:53	01/18/19 23:37	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.012	mg/Kg	-	01/18/19 11:28	01/18/19 16:20	1

Client Sample ID: SB8-10

Date Collected: 01/15/19 09:07

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-39

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/18/19 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		65 - 140					01/18/19 19:03	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 03:23	1
C23-C40	3.2	J B	5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 03:23	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB8-10
Date Collected: 01/15/19 09:07
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-39
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	92		40 - 140	01/16/19 07:11	01/17/19 03:23	1

Client Sample ID: SB9-0.5
Date Collected: 01/15/19 09:35
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-43
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/28/19 13:14	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		65 - 140		01/28/19 13:14	1			

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	12		5.0	2.5	mg/Kg	-	01/28/19 09:53	01/29/19 14:40	1
C23-C40	50	B	5.0	2.5	mg/Kg	-	01/28/19 09:53	01/29/19 14:40	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane	90		40 - 140		01/28/19 09:53	1			

Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Arsenic	5.6		3.0	1.5	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Barium	90		1.5	0.74	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Beryllium	0.27	J	0.49	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Cadmium	1.3		0.49	0.25	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Chromium	25		0.99	0.49	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Cobalt	3.0		0.99	0.49	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Copper	9.7		2.0	1.1	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Lead	4.8		2.0	0.99	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Molybdenum	1.6	J	2.0	0.99	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Nickel	17		2.0	0.99	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Selenium	ND		3.0	1.7	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Thallium	ND		9.9	4.9	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Vanadium	32		0.99	0.49	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Zinc	30		4.9	2.5	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5
Silver	ND		1.5	0.88	mg/Kg	-	01/17/19 10:53	01/18/19 23:40	5

Method: 7471A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.012	mg/Kg	-	01/18/19 11:35	01/18/19 16:54	1

Client Sample ID: SB9-2.5
Date Collected: 01/15/19 09:33
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-44
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/28/19 14:41	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-2.5

Date Collected: 01/15/19 09:33

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-44

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		65 - 140		01/28/19 14:41	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	8.3		5.0	2.5	mg/Kg		01/28/19 09:53	01/29/19 15:01	1
C23-C40	20	B	5.0	2.5	mg/Kg		01/28/19 09:53	01/29/19 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	76		40 - 140	01/28/19 09:53	01/29/19 15:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Arsenic	4.8		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Barium	73		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Cadmium	0.79		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Chromium	17		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Cobalt	2.7		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Copper	15		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Lead	12		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Molybdenum	1.4	J	2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Nickel	12		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Vanadium	25		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Zinc	46		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 23:44	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 23:44	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.012	mg/Kg		01/18/19 11:35	01/18/19 16:58	1

Client Sample ID: SB9-5

Date Collected: 01/15/19 09:30

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-45

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/21/19 12:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/21/19 12:27	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-5
Date Collected: 01/15/19 09:30
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-45
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Benzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Bromoform	ND		5.0	2.0	ug/Kg			01/21/19 12:27	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/21/19 12:27	1
Chloroform	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/21/19 12:27	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/21/19 12:27	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/21/19 12:27	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/21/19 12:27	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
o-Xylene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Styrene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Toluene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/21/19 12:27	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/21/19 12:27	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/21/19 12:27	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-5
Date Collected: 01/15/19 09:30
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-45
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg	-		01/21/19 12:27	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg	-		01/21/19 12:27	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg	-		01/21/19 12:27	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg	-		01/21/19 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		79 - 123					01/21/19 12:27	1
4-Bromofluorobenzene (Surr)	103		79 - 120					01/21/19 12:27	1
Dibromofluoromethane (Surr)	103		60 - 120					01/21/19 12:27	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	260000		80000	40000	ug/Kg	-	01/21/19 11:31	01/21/19 14:06	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	X	65 - 140				01/21/19 11:31	01/21/19 14:06	200

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	5.2		5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 03:42	1
C23-C40	9.0	B	5.0	2.5	mg/Kg	-	01/16/19 07:11	01/17/19 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	82		40 - 140				01/16/19 07:11	01/17/19 03:42	1

Client Sample ID: SB9-10
Date Collected: 01/15/19 09:37
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-46
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/21/19 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		65 - 140					01/21/19 11:21	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	23		9.9	4.9	mg/Kg	-	01/16/19 07:11	01/17/19 01:54	1
C23-C40	180	B	9.9	4.9	mg/Kg	-	01/16/19 07:11	01/17/19 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	100		40 - 140				01/16/19 07:11	01/17/19 01:54	1

Client Sample ID: SB9-20
Date Collected: 01/15/19 09:41
Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-48
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		01/21/19 12:48	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-20

Date Collected: 01/15/19 09:41

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-48

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		65 - 140					01/21/19 12:48	1
Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.4	mg/Kg		01/16/19 07:11	01/17/19 03:43	1
C23-C40	3.6	J B	4.9	2.4	mg/Kg		01/16/19 07:11	01/17/19 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	79		40 - 140				01/16/19 07:11	01/17/19 03:43	1

Client Sample ID: SB9-25

Date Collected: 01/15/19 09:43

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-49

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,1-Dichloroethene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,2,3-Trichlorobenzene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			01/19/19 19:36	1
1,2,4-Trichlorobenzene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
1,2,4-Trimethylbenzene	3.9		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.0	ug/Kg			01/19/19 19:36	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,3,5-Trimethylbenzene	1.3	J	2.0	0.99	ug/Kg			01/19/19 19:36	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
2-Chlorotoluene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
4-Chlorotoluene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Benzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Bromobenzene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Bromochloromethane	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Bromoform	ND		4.9	2.0	ug/Kg			01/19/19 19:36	1
Bromomethane	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Carbon tetrachloride	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Chloroethane	ND		4.9	2.0	ug/Kg			01/19/19 19:36	1
Chloroform	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Chloromethane	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-25

Date Collected: 01/15/19 09:43

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-49

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Dibromomethane	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Dichlorodifluoromethane	ND		4.9	2.0	ug/Kg			01/19/19 19:36	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Hexachlorobutadiene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
m,p-Xylene	ND		3.9	2.0	ug/Kg			01/19/19 19:36	1
Methylene Chloride	ND		20	4.9	ug/Kg			01/19/19 19:36	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Naphthalene	ND		4.9	2.0	ug/Kg			01/19/19 19:36	1
n-Butylbenzene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
o-Xylene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
sec-Butylbenzene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Styrene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Tert-amyl-methyl ether (TAME)	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
tert-Butylbenzene	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Toluene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Trichloroethene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1
Trichlorofluoromethane	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Vinyl chloride	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Xylenes, Total	ND		3.9	2.0	ug/Kg			01/19/19 19:36	1
Isopropyl Ether (DIPE)	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
Ethyl-t-butyl ether (ETBE)	ND		4.9	0.99	ug/Kg			01/19/19 19:36	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			01/19/19 19:36	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			01/19/19 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		79 - 123		01/19/19 19:36	1
4-Bromofluorobenzene (Surr)	115		79 - 120		01/19/19 19:36	1
Dibromofluoromethane (Surr)	112		60 - 120		01/19/19 19:36	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	480		400	150	ug/Kg			01/18/19 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		65 - 140		01/18/19 22:24	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	3.3	J	4.9	2.5	mg/Kg		01/16/19 07:23	01/16/19 21:16	1
C23-C40	7.0	B	4.9	2.5	mg/Kg		01/16/19 07:23	01/16/19 21:16	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-25

Date Collected: 01/15/19 09:43

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-49

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	107		40 - 140	01/16/19 07:23	01/16/19 21:16	1

Client Sample ID: SB9-30

Date Collected: 01/15/19 09:57

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-50

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/19/19 20:03	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/19/19 20:03	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Benzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Bromoform	ND		5.0	2.0	ug/Kg			01/19/19 20:03	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/19/19 20:03	1
Chloroform	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/19/19 20:03	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-30

Date Collected: 01/15/19 09:57

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-50

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/19/19 20:03	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/19/19 20:03	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/19/19 20:03	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
o-Xylene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Styrene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Toluene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/19/19 20:03	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			01/19/19 20:03	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			01/19/19 20:03	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			01/19/19 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		79 - 123		01/19/19 20:03	1
4-Bromofluorobenzene (Surr)	116		79 - 120		01/19/19 20:03	1
Dibromofluoromethane (Surr)	108		60 - 120		01/19/19 20:03	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		65 - 140		01/18/19 22:52	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	3.0	J	5.0	2.5	mg/Kg		01/16/19 07:23	01/16/19 21:36	1
C23-C40	5.4	B	5.0	2.5	mg/Kg		01/16/19 07:23	01/16/19 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	107		40 - 140	01/16/19 07:23	01/16/19 21:36	1

Client Sample ID: SB9-35

Date Collected: 01/15/19 09:59

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-51

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 23:19	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		65 - 140					01/18/19 23:19	1
Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.5	J	4.9	2.5	mg/Kg		01/16/19 07:23	01/16/19 21:57	1
C23-C40	4.4	J B	4.9	2.5	mg/Kg		01/16/19 07:23	01/16/19 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	96		40 - 140				01/16/19 07:23	01/16/19 21:57	1

Surrogate Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (79-123)	BFB (79-120)	DBFM (60-120)
440-230161-2	SB1-2.5	120	109	100
440-230161-2 MS	SB1-2.5	110	111	102
440-230161-2 MSD	SB1-2.5	110	109	103
440-230161-7	SB2-2.5	123	115	96
440-230161-12	SB3-2.5	122	115	98
440-230161-17	SB4-2.5	121	114	102
440-230161-22	SB5-2.5	102	110	112
440-230161-22 MS	SB5-2.5	100	111	111
440-230161-22 MSD	SB5-2.5	101	112	108
440-230161-27	SB6-2.5	138 * X	161 * X	121 X
440-230161-28	SB6-5	119	152 X *	121 X
440-230161-32	SB7-2.5	110	135 X	111
440-230161-37	SB8-2.5	111	116	109
440-230161-45	SB9-5	106	103	103
440-230161-49	SB9-25	104	115	112
440-230161-50	SB9-30	107	116	108
440-230264-A-4 MS	Matrix Spike	98	98	107
440-230264-A-4 MSD	Matrix Spike Duplicate	96	100	107
LCS 440-523324/5	Lab Control Sample	114	106	96
LCS 440-523577/6	Lab Control Sample	104	106	108
LCS 440-523696/5	Lab Control Sample	95	97	107
MB 440-523324/4	Method Blank	120	114	93
MB 440-523577/5	Method Blank	104	117	108
MB 440-523696/4	Method Blank	104	100	105

Surrogate Legend

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (65-140)		
440-230161-2	SB1-2.5	104		
440-230161-2 MS	SB1-2.5	110		
440-230161-2 MSD	SB1-2.5	108		
440-230161-4	SB1-10	100		
440-230161-7	SB2-2.5	102		
440-230161-9	SB2-10	91		
440-230161-12	SB3-2.5	96		
440-230161-14	SB3-10	96		
440-230161-17	SB4-2.5	99		
440-230161-19	SB4-10	100		
440-230161-22	SB5-2.5	95		
440-230161-24	SB5-10	90		
440-230161-27	SB6-2.5	55 X		

TestAmerica Irvine

Surrogate Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (65-140)
440-230161-28	SB6-5	48 X
440-230161-29	SB6-10	88
440-230161-29 MS	SB6-10	102
440-230161-29 MSD	SB6-10	100
440-230161-32	SB7-2.5	85
440-230161-34	SB7-10	89
440-230161-37	SB8-2.5	90
440-230161-39	SB8-10	89
440-230161-43	SB9-0.5	98
440-230161-43 MS	SB9-0.5	102
440-230161-43 MSD	SB9-0.5	103
440-230161-44	SB9-2.5	92
440-230161-45	SB9-5	162 X
440-230161-46	SB9-10	91
440-230161-46 MS	SB9-10	93
440-230161-46 MSD	SB9-10	93
440-230161-48	SB9-20	92
440-230161-49	SB9-25	79
440-230161-50	SB9-30	84
440-230161-51	SB9-35	87
LCS 440-523219/16	Lab Control Sample	93
LCS 440-523445/3	Lab Control Sample	90
LCS 440-523713/3	Lab Control Sample	102
LCS 440-523720/7	Lab Control Sample	112
LCS 440-525301/3	Lab Control Sample	100
LCSD 440-523219/17	Lab Control Sample Dup	89
LCSD 440-523445/4	Lab Control Sample Dup	102
LCSD 440-523713/4	Lab Control Sample Dup	98
LCSD 440-523720/8	Lab Control Sample Dup	114
LCSD 440-525301/4	Lab Control Sample Dup	100
MB 440-523219/18	Method Blank	102
MB 440-523445/5	Method Blank	99
MB 440-523713/5	Method Blank	99
MB 440-523720/6	Method Blank	102
MB 440-525301/5	Method Blank	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
440-230037-G-9-C MS	Matrix Spike	89
440-230037-G-9-D MSD	Matrix Spike Duplicate	92
440-230161-2	SB1-2.5	93
440-230161-2 MS	SB1-2.5	88

TestAmerica Irvine

Surrogate Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
440-230161-2 MSD	SB1-2.5	93
440-230161-4	SB1-10	88
440-230161-7	SB2-2.5	83
440-230161-9	SB2-10	88
440-230161-12	SB3-2.5	88
440-230161-14	SB3-10	84
440-230161-17	SB4-2.5	83
440-230161-19	SB4-10	87
440-230161-22	SB5-2.5	81
440-230161-24	SB5-10	95
440-230161-27	SB6-2.5	175 X
440-230161-28	SB6-5	69
440-230161-29	SB6-10	95
440-230161-32	SB7-2.5	85
440-230161-34	SB7-10	87
440-230161-37	SB8-2.5	90
440-230161-39	SB8-10	92
440-230161-43	SB9-0.5	90
440-230161-44	SB9-2.5	76
440-230161-45	SB9-5	82
440-230161-46	SB9-10	100
440-230161-48	SB9-20	79
440-230161-49	SB9-25	107
440-230161-50	SB9-30	107
440-230161-51	SB9-35	96
720-91011-F-8-A MS	Matrix Spike	75
720-91011-F-8-B MSD	Matrix Spike Duplicate	81
LCS 440-522725/2-A	Lab Control Sample	91
LCS 440-522727/2-A	Lab Control Sample	97
LCS 440-525292/2-A	Lab Control Sample	88
MB 440-522725/1-A	Method Blank	94
MB 440-522727/1-A	Method Blank	91
MB 440-525292/1-A	Method Blank	84

Surrogate Legend

OTCN = n-Octacosane

Method Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics(DRO)/Oil Range Organics (ORO)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB1-0.5

Date Collected: 01/15/19 07:45

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 22:21	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:18	DB	TAL IRV

Client Sample ID: SB1-2.5

Date Collected: 01/15/19 07:47

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	523324	01/18/19 14:57	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	523219	01/17/19 19:14	EI	TAL IRV
Total/NA	Prep	3546			15.08 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 00:20	LMB	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 22:44	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:22	DB	TAL IRV

Client Sample ID: SB1-10

Date Collected: 01/15/19 07:54

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.02 g	10 mL	523219	01/17/19 20:35	EI	TAL IRV
Total/NA	Prep	3546			15.16 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 01:21	LMB	TAL IRV

Client Sample ID: SB2-0.5

Date Collected: 01/15/19 08:25

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 22:47	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523296	01/18/19 11:35	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 17:00	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB2-2.5

Date Collected: 01/15/19 08:27

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	523324	01/18/19 17:20	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5 g	10 mL	523219	01/17/19 21:01	EI	TAL IRV
Total/NA	Prep	3546			15.16 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/16/19 23:25	LMB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 22:51	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:33	DB	TAL IRV

Client Sample ID: SB2-10

Date Collected: 01/15/19 08:33

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.04 g	10 mL	523219	01/17/19 21:28	EI	TAL IRV
Total/NA	Prep	3546			15.38 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 01:41	LMB	TAL IRV

Client Sample ID: SB3-0.5

Date Collected: 01/15/19 11:15

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 22:54	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:36	DB	TAL IRV

Client Sample ID: SB3-2.5

Date Collected: 01/15/19 11:13

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.06 g	10 mL	523324	01/18/19 17:48	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	523219	01/17/19 21:54	EI	TAL IRV
Total/NA	Prep	3546			15.28 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 02:37	LMB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 22:57	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:34	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB3-10

Date Collected: 01/15/19 11:16

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.04 g	10 mL	523219	01/17/19 22:21	EI	TAL IRV
Total/NA	Prep	3546			15.09 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 02:01	LMB	TAL IRV

Client Sample ID: SB4-0.5

Date Collected: 01/15/19 11:33

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:00	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:13	DB	TAL IRV

Client Sample ID: SB4-2.5

Date Collected: 01/15/19 11:32

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	523324	01/18/19 18:16	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	523219	01/17/19 22:48	EI	TAL IRV
Total/NA	Prep	3546			15.33 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/16/19 23:46	LMB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:04	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:26	DB	TAL IRV

Client Sample ID: SB4-10

Date Collected: 01/15/19 11:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.05 g	10 mL	523219	01/17/19 23:15	EI	TAL IRV
Total/NA	Prep	3546			15.23 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 02:22	LMB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB5-0.5

Date Collected: 01/15/19 10:55

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:07	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:27	DB	TAL IRV

Client Sample ID: SB5-2.5

Date Collected: 01/15/19 10:53

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	523577	01/19/19 13:37	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	523219	01/18/19 00:35	EI	TAL IRV
Total/NA	Prep	3546			15.16 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 02:59	LMB	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:10	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:15	DB	TAL IRV

Client Sample ID: SB5-10

Date Collected: 01/15/19 10:57

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.02 g	10 mL	523219	01/18/19 01:02	EI	TAL IRV
Total/NA	Prep	3546			15.32 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 02:42	LMB	TAL IRV

Client Sample ID: SB6-0.5

Date Collected: 01/15/19 08:07

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:20	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:24	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB6-2.5

Date Collected: 01/15/19 08:10

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.08 g	10 mL	523324	01/18/19 18:45	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	523445	01/18/19 16:44	EI	TAL IRV
Total/NA	Prep	3546			15.07 g	2 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		20			523032	01/17/19 09:56	LMB	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:24	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:17	DB	TAL IRV

Client Sample ID: SB6-5

Date Collected: 01/15/19 08:15

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	10 mL	523577	01/19/19 18:13	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	523445	01/18/19 17:12	EI	TAL IRV
Total/NA	Prep	3546			15.15 g	2 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		10			523034	01/17/19 11:03	LMB	TAL IRV

Client Sample ID: SB6-10

Date Collected: 01/15/19 08:40

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.01 g	10 mL	523445	01/18/19 16:16	EI	TAL IRV
Total/NA	Prep	3546			15.45 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 03:02	LMB	TAL IRV

Client Sample ID: SB7-0.5

Date Collected: 01/15/19 10:37

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.98 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:27	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523296	01/18/19 11:35	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:56	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB7-2.5

Date Collected: 01/15/19 10:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	523577	01/19/19 18:41	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	523445	01/18/19 17:40	EI	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 01:33	LMB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:30	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:38	DB	TAL IRV

Client Sample ID: SB7-10

Date Collected: 01/15/19 10:39

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.04 g	10 mL	523445	01/18/19 18:08	EI	TAL IRV
Total/NA	Prep	3546			15.44 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 00:08	LMB	TAL IRV

Client Sample ID: SB8-0.5

Date Collected: 01/15/19 09:05

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-36

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:34	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:40	DB	TAL IRV

Client Sample ID: SB8-2.5

Date Collected: 01/15/19 09:03

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	523577	01/19/19 19:09	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	523445	01/18/19 18:36	EI	TAL IRV
Total/NA	Prep	3546			15.24 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 03:20	LMB	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:37	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523293	01/18/19 11:28	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:20	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB8-10

Date Collected: 01/15/19 09:07

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.04 g	10 mL	523445	01/18/19 19:03	EI	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 03:23	LMB	TAL IRV

Client Sample ID: SB9-0.5

Date Collected: 01/15/19 09:35

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.03 g	10 mL	525301	01/28/19 13:14	IM	TAL IRV
Total/NA	Prep	3546			15.04 g	1 mL	525292	01/28/19 09:53	EGC	TAL IRV
Total/NA	Analysis	8015B		1			525506	01/29/19 14:40	MPD	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:40	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	523296	01/18/19 11:35	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:54	DB	TAL IRV

Client Sample ID: SB9-2.5

Date Collected: 01/15/19 09:33

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.01 g	10 mL	525301	01/28/19 14:41	IM	TAL IRV
Total/NA	Prep	3546			15.02 g	1 mL	525292	01/28/19 09:53	EGC	TAL IRV
Total/NA	Analysis	8015B		1			525506	01/29/19 15:01	MPD	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	523104	01/17/19 10:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			523631	01/18/19 23:44	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	523296	01/18/19 11:35	DB	TAL IRV
Total/NA	Analysis	7471A		1			523840	01/18/19 16:58	DB	TAL IRV

Client Sample ID: SB9-5

Date Collected: 01/15/19 09:30

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	523696	01/21/19 12:27	WC	TAL IRV
Total/NA	Prep	5030B			10.01 g	10 mL	523778	01/21/19 11:31	IM	TAL IRV
Total/NA	Analysis	8015B		200	10 mL	10 mL	523720	01/21/19 14:06	IM	TAL IRV
Total/NA	Prep	3546			15.09 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 03:42	LMB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Client Sample ID: SB9-10

Date Collected: 01/15/19 09:37

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.05 g	10 mL	523713	01/21/19 11:21	IM	TAL IRV
Total/NA	Prep	3546			15.16 g	2 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522742	01/17/19 01:54	LMB	TAL IRV

Client Sample ID: SB9-20

Date Collected: 01/15/19 09:41

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.03 g	10 mL	523713	01/21/19 12:48	IM	TAL IRV
Total/NA	Prep	3546			15.31 g	1 mL	522725	01/16/19 07:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/17/19 03:43	LMB	TAL IRV

Client Sample ID: SB9-25

Date Collected: 01/15/19 09:43

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-49

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	10 mL	523577	01/19/19 19:36	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	523445	01/18/19 22:24	EI	TAL IRV
Total/NA	Prep	3546			15.30 g	1 mL	522727	01/16/19 07:23	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/16/19 21:16	LMB	TAL IRV

Client Sample ID: SB9-30

Date Collected: 01/15/19 09:57

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4.97 g	10 mL	523577	01/19/19 20:03	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	523445	01/18/19 22:52	EI	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	522727	01/16/19 07:23	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/16/19 21:36	LMB	TAL IRV

Client Sample ID: SB9-35

Date Collected: 01/15/19 09:59

Date Received: 01/15/19 14:24

Lab Sample ID: 440-230161-51

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.01 g	10 mL	523445	01/18/19 23:19	EI	TAL IRV
Total/NA	Prep	3546			15.17 g	1 mL	522727	01/16/19 07:23	L1A	TAL IRV
Total/NA	Analysis	8015B		1			522739	01/16/19 21:57	LMB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-523324/4

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/18/19 08:16	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/18/19 08:16	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Benzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Bromoform	ND		5.0	2.0	ug/Kg			01/18/19 08:16	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/18/19 08:16	1
Chloroform	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/18/19 08:16	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/18/19 08:16	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/18/19 08:16	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/18/19 08:16	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523324/4

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Styrene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Toluene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/18/19 08:16	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			01/18/19 08:16	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			01/18/19 08:16	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			01/18/19 08:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	120		79 - 123		01/18/19 08:16	1
4-Bromofluorobenzene (Surr)	114		79 - 120		01/18/19 08:16	1
Dibromofluoromethane (Surr)	93		60 - 120		01/18/19 08:16	1

Lab Sample ID: LCS 440-523324/5

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 130
1,1,1-Trichloroethane	50.0	46.6		ug/Kg		93	65 - 135
1,1,2,2-Tetrachloroethane	50.0	58.9		ug/Kg		118	55 - 140
1,1,2-Trichloroethane	50.0	58.5		ug/Kg		117	65 - 135
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	58.0		ug/Kg		116	70 - 125
1,1-Dichloropropene	50.0	55.8		ug/Kg		112	70 - 130
1,2,3-Trichlorobenzene	50.0	47.3		ug/Kg		95	60 - 130
1,2,3-Trichloropropane	50.0	52.2		ug/Kg		104	60 - 135
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	70 - 135
1,2,4-Trimethylbenzene	50.0	52.5		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/Kg		98	50 - 135
1,2-Dibromoethane (EDB)	50.0	53.6		ug/Kg		107	70 - 130
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	75 - 120
1,2-Dichloroethane	50.0	45.8		ug/Kg		92	60 - 140
1,2-Dichloropropane	50.0	56.6		ug/Kg		113	70 - 130
1,3,5-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 125
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 125
1,3-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 125
1,4-Dichlorobenzene	50.0	53.8		ug/Kg		108	75 - 120

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523324/5

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	49.1		ug/Kg		98	60 - 145
2-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 125
4-Chlorotoluene	50.0	51.9		ug/Kg		104	75 - 125
Benzene	50.0	55.3		ug/Kg		111	65 - 120
Bromobenzene	50.0	56.1		ug/Kg		112	75 - 120
Bromochloromethane	50.0	51.2		ug/Kg		102	70 - 135
Bromodichloromethane	50.0	48.3		ug/Kg		97	70 - 135
Bromoform	50.0	49.6		ug/Kg		99	55 - 135
Bromomethane	50.0	47.1		ug/Kg		94	60 - 145
Carbon tetrachloride	50.0	47.7		ug/Kg		95	65 - 140
Chlorobenzene	50.0	52.9		ug/Kg		106	75 - 120
Chloroethane	50.0	52.8		ug/Kg		106	60 - 140
Chloroform	50.0	48.1		ug/Kg		96	70 - 130
Chloromethane	50.0	42.1		ug/Kg		84	45 - 145
cis-1,2-Dichloroethene	50.0	53.9		ug/Kg		108	70 - 125
cis-1,3-Dichloropropene	50.0	58.0		ug/Kg		116	75 - 125
Dibromochloromethane	50.0	51.7		ug/Kg		103	65 - 140
Dibromomethane	50.0	54.4		ug/Kg		109	70 - 130
Dichlorodifluoromethane	50.0	38.3		ug/Kg		77	35 - 160
Ethylbenzene	50.0	53.6		ug/Kg		107	70 - 125
Hexachlorobutadiene	50.0	42.9		ug/Kg		86	60 - 135
Isopropylbenzene	50.0	53.3		ug/Kg		107	75 - 130
m,p-Xylene	50.0	56.1		ug/Kg		112	70 - 125
Methylene Chloride	50.0	52.4		ug/Kg		105	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	49.6		ug/Kg		99	60 - 140
Naphthalene	50.0	48.2		ug/Kg		96	55 - 135
n-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 130
N-Propylbenzene	50.0	56.9		ug/Kg		114	70 - 130
o-Xylene	50.0	54.5		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	53.1		ug/Kg		106	70 - 125
Styrene	50.0	50.6		ug/Kg		101	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	49.5		ug/Kg		99	60 - 145
tert-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 125
Tetrachloroethene	50.0	58.0		ug/Kg		116	70 - 125
Toluene	50.0	56.7		ug/Kg		113	70 - 125
trans-1,2-Dichloroethene	50.0	55.5		ug/Kg		111	70 - 125
trans-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	70 - 135
Trichloroethene	50.0	54.6		ug/Kg		109	70 - 125
Trichlorofluoromethane	50.0	41.5		ug/Kg		83	60 - 145
Vinyl chloride	50.0	49.2		ug/Kg		98	55 - 135
Isopropyl Ether (DIPE)	50.0	49.2		ug/Kg		98	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	48.2		ug/Kg		96	60 - 140
tert-Butyl alcohol (TBA)	500	551		ug/Kg		110	70 - 135
p-Isopropyltoluene	50.0	52.7		ug/Kg		105	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	114		79 - 123
4-Bromofluorobenzene (Surr)	106		79 - 120

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523324/5

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	96		60 - 120

Lab Sample ID: 440-230161-2 MS

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.3	52.4		ug/Kg		106	65 - 145
1,1,1-Trichloroethane	ND		49.3	47.2		ug/Kg		96	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.3	60.6		ug/Kg		123	40 - 160
1,1,2-Trichloroethane	ND		49.3	63.3		ug/Kg		128	65 - 140
1,1-Dichloroethane	ND		49.3	52.6		ug/Kg		107	65 - 135
1,1-Dichloroethene	ND		49.3	56.5		ug/Kg		115	65 - 135
1,1-Dichloropropene	ND		49.3	55.1		ug/Kg		112	65 - 135
1,2,3-Trichlorobenzene	ND		49.3	46.9		ug/Kg		95	45 - 145
1,2,3-Trichloropropane	ND		49.3	55.5		ug/Kg		112	50 - 150
1,2,4-Trichlorobenzene	ND		49.3	46.1		ug/Kg		93	50 - 140
1,2,4-Trimethylbenzene	ND		49.3	52.3		ug/Kg		106	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.3	48.8		ug/Kg		99	40 - 150
1,2-Dibromoethane (EDB)	ND		49.3	55.7		ug/Kg		113	65 - 140
1,2-Dichlorobenzene	ND		49.3	55.6		ug/Kg		113	70 - 130
1,2-Dichloroethane	ND		49.3	49.7		ug/Kg		101	60 - 150
1,2-Dichloropropane	ND		49.3	58.5		ug/Kg		119	65 - 130
1,3,5-Trimethylbenzene	ND		49.3	52.4		ug/Kg		106	65 - 135
1,3-Dichlorobenzene	ND		49.3	52.7		ug/Kg		107	70 - 130
1,3-Dichloropropane	ND		49.3	57.6		ug/Kg		117	65 - 140
1,4-Dichlorobenzene	ND		49.3	54.0		ug/Kg		109	70 - 130
2,2-Dichloropropane	ND		49.3	50.0		ug/Kg		101	65 - 150
2-Chlorotoluene	ND		49.3	51.1		ug/Kg		104	60 - 135
4-Chlorotoluene	ND		49.3	51.8		ug/Kg		105	65 - 135
Benzene	ND		49.3	55.8		ug/Kg		113	65 - 130
Bromobenzene	ND		49.3	57.6		ug/Kg		117	65 - 140
Bromochloromethane	ND		49.3	53.2		ug/Kg		108	65 - 145
Bromodichloromethane	ND		49.3	52.1		ug/Kg		106	65 - 145
Bromoform	ND		49.3	50.5		ug/Kg		102	50 - 145
Bromomethane	ND		49.3	46.1		ug/Kg		94	60 - 155
Carbon tetrachloride	ND		49.3	47.8		ug/Kg		97	60 - 145
Chlorobenzene	ND		49.3	53.5		ug/Kg		108	70 - 130
Chloroethane	ND		49.3	50.2		ug/Kg		102	60 - 150
Chloroform	ND		49.3	49.7		ug/Kg		101	65 - 135
Chloromethane	ND		49.3	41.8		ug/Kg		85	40 - 145
cis-1,2-Dichloroethene	ND		49.3	55.1		ug/Kg		112	65 - 135
cis-1,3-Dichloropropene	ND		49.3	61.2		ug/Kg		124	70 - 135
Dibromochloromethane	ND		49.3	54.9		ug/Kg		111	60 - 145
Dibromomethane	ND		49.3	57.4		ug/Kg		116	65 - 140
Dichlorodifluoromethane	ND		49.3	35.4		ug/Kg		72	30 - 160
Ethylbenzene	ND		49.3	52.5		ug/Kg		106	70 - 135
Hexachlorobutadiene	ND		49.3	39.4		ug/Kg		80	50 - 145

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230161-2 MS

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	ND		49.3	51.7		ug/Kg		105	70 - 145
m,p-Xylene	ND		49.3	54.8		ug/Kg		111	70 - 130
Methylene Chloride	ND		49.3	57.3		ug/Kg		116	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.3	52.3		ug/Kg		106	55 - 155
Naphthalene	ND		49.3	49.2		ug/Kg		100	40 - 150
n-Butylbenzene	ND		49.3	50.2		ug/Kg		102	55 - 145
N-Propylbenzene	ND		49.3	56.2		ug/Kg		114	65 - 140
o-Xylene	ND		49.3	55.1		ug/Kg		112	65 - 130
sec-Butylbenzene	ND		49.3	52.7		ug/Kg		107	60 - 135
Styrene	ND		49.3	51.3		ug/Kg		104	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.3	52.3		ug/Kg		106	60 - 150
tert-Butylbenzene	ND		49.3	52.0		ug/Kg		105	60 - 140
Tetrachloroethene	ND		49.3	56.1		ug/Kg		114	65 - 135
Toluene	ND		49.3	56.3		ug/Kg		114	70 - 130
trans-1,2-Dichloroethene	ND		49.3	55.2		ug/Kg		112	70 - 135
trans-1,3-Dichloropropene	ND		49.3	56.0		ug/Kg		114	60 - 145
Trichloroethene	ND		49.3	54.4		ug/Kg		110	65 - 140
Trichlorofluoromethane	ND		49.3	41.9		ug/Kg		85	55 - 155
Vinyl chloride	ND		49.3	46.8		ug/Kg		95	55 - 140
Isopropyl Ether (DIPE)	ND		49.3	51.5		ug/Kg		104	60 - 150
Ethyl-t-butyl ether (ETBE)	ND		49.3	51.4		ug/Kg		104	60 - 145
tert-Butyl alcohol (TBA)	ND		49.3	56.4		ug/Kg		114	65 - 145
p-Isopropyltoluene	ND		49.3	52.0		ug/Kg		105	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	110		79 - 123
4-Bromofluorobenzene (Surr)	111		79 - 120
Dibromofluoromethane (Surr)	102		60 - 120

Lab Sample ID: 440-230161-2 MSD

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.2	50.9		ug/Kg		103	65 - 145	3	20
1,1,1-Trichloroethane	ND		49.2	44.4		ug/Kg		90	65 - 145	6	20
1,1,2,2-Tetrachloroethane	ND		49.2	61.3		ug/Kg		125	40 - 160	1	30
1,1,2-Trichloroethane	ND		49.2	60.4		ug/Kg		123	65 - 140	5	30
1,1-Dichloroethane	ND		49.2	50.2		ug/Kg		102	65 - 135	5	25
1,1-Dichloroethene	ND		49.2	56.3		ug/Kg		114	65 - 135	0	25
1,1-Dichloropropene	ND		49.2	51.8		ug/Kg		105	65 - 135	6	20
1,2,3-Trichlorobenzene	ND		49.2	46.7		ug/Kg		95	45 - 145	0	30
1,2,3-Trichloropropane	ND		49.2	56.2		ug/Kg		114	50 - 150	1	30
1,2,4-Trichlorobenzene	ND		49.2	44.3		ug/Kg		90	50 - 140	4	30
1,2,4-Trimethylbenzene	ND		49.2	51.1		ug/Kg		104	65 - 140	2	25
1,2-Dibromo-3-Chloropropane	ND		49.2	48.2		ug/Kg		98	40 - 150	1	30
1,2-Dibromoethane (EDB)	ND		49.2	55.8		ug/Kg		113	65 - 140	0	25
1,2-Dichlorobenzene	ND		49.2	56.5		ug/Kg		115	70 - 130	2	25

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230161-2 MSD

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		49.2	48.3		ug/Kg		98	60 - 150	3	25
1,2-Dichloropropane	ND		49.2	57.1		ug/Kg		116	65 - 130	2	20
1,3,5-Trimethylbenzene	ND		49.2	52.0		ug/Kg		106	65 - 135	1	25
1,3-Dichlorobenzene	ND		49.2	52.0		ug/Kg		106	70 - 130	1	25
1,3-Dichloropropane	ND		49.2	55.8		ug/Kg		113	65 - 140	3	25
1,4-Dichlorobenzene	ND		49.2	53.2		ug/Kg		108	70 - 130	1	25
2,2-Dichloropropane	ND		49.2	46.1		ug/Kg		94	65 - 150	8	25
2-Chlorotoluene	ND		49.2	51.2		ug/Kg		104	60 - 135	0	25
4-Chlorotoluene	ND		49.2	51.8		ug/Kg		105	65 - 135	0	25
Benzene	ND		49.2	54.2		ug/Kg		110	65 - 130	3	20
Bromobenzene	ND		49.2	59.9		ug/Kg		122	65 - 140	4	25
Bromochloromethane	ND		49.2	53.9		ug/Kg		110	65 - 145	1	25
Bromodichloromethane	ND		49.2	49.2		ug/Kg		100	65 - 145	6	20
Bromoform	ND		49.2	49.4		ug/Kg		100	50 - 145	2	30
Bromomethane	ND		49.2	45.5		ug/Kg		92	60 - 155	1	25
Carbon tetrachloride	ND		49.2	46.7		ug/Kg		95	60 - 145	2	25
Chlorobenzene	ND		49.2	50.9		ug/Kg		104	70 - 130	5	25
Chloroethane	ND		49.2	50.5		ug/Kg		103	60 - 150	1	25
Chloroform	ND		49.2	46.8		ug/Kg		95	65 - 135	6	20
Chloromethane	ND		49.2	41.6		ug/Kg		85	40 - 145	0	25
cis-1,2-Dichloroethene	ND		49.2	53.4		ug/Kg		109	65 - 135	3	25
cis-1,3-Dichloropropene	ND		49.2	57.5		ug/Kg		117	70 - 135	6	25
Dibromochloromethane	ND		49.2	54.5		ug/Kg		111	60 - 145	1	25
Dibromomethane	ND		49.2	55.9		ug/Kg		113	65 - 140	3	25
Dichlorodifluoromethane	ND		49.2	34.9		ug/Kg		71	30 - 160	1	35
Ethylbenzene	ND		49.2	50.2		ug/Kg		102	70 - 135	4	25
Hexachlorobutadiene	ND		49.2	34.3		ug/Kg		70	50 - 145	14	35
Isopropylbenzene	ND		49.2	49.4		ug/Kg		100	70 - 145	5	25
m,p-Xylene	ND		49.2	53.0		ug/Kg		108	70 - 130	3	25
Methylene Chloride	ND		49.2	56.5		ug/Kg		115	55 - 145	1	25
Methyl-t-Butyl Ether (MTBE)	ND		49.2	51.4		ug/Kg		104	55 - 155	2	35
Naphthalene	ND		49.2	52.2		ug/Kg		106	40 - 150	6	40
n-Butylbenzene	ND		49.2	45.9		ug/Kg		93	55 - 145	9	30
N-Propylbenzene	ND		49.2	55.3		ug/Kg		112	65 - 140	2	25
o-Xylene	ND		49.2	52.6		ug/Kg		107	65 - 130	5	25
sec-Butylbenzene	ND		49.2	49.2		ug/Kg		100	60 - 135	7	25
Styrene	ND		49.2	49.6		ug/Kg		101	70 - 140	3	25
Tert-amyl-methyl ether (TAME)	ND		49.2	51.7		ug/Kg		105	60 - 150	1	25
tert-Butylbenzene	ND		49.2	49.4		ug/Kg		100	60 - 140	5	25
Tetrachloroethene	ND		49.2	54.3		ug/Kg		110	65 - 135	3	25
Toluene	ND		49.2	53.1		ug/Kg		108	70 - 130	6	20
trans-1,2-Dichloroethene	ND		49.2	55.0		ug/Kg		112	70 - 135	0	25
trans-1,3-Dichloropropene	ND		49.2	53.8		ug/Kg		109	60 - 145	4	25
Trichloroethene	ND		49.2	53.5		ug/Kg		109	65 - 140	2	25
Trichlorofluoromethane	ND		49.2	39.5		ug/Kg		80	55 - 155	6	25
Vinyl chloride	ND		49.2	46.6		ug/Kg		95	55 - 140	0	30
Isopropyl Ether (DIPE)	ND		49.2	52.0		ug/Kg		106	60 - 150	1	25
Ethyl-t-butyl ether (ETBE)	ND		49.2	49.9		ug/Kg		101	60 - 145	3	30

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230161-2 MSD

Matrix: Solid

Analysis Batch: 523324

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	ND		492	577		ug/Kg		117	65 - 145	2	30
p-Isopropyltoluene	ND		49.2	48.1		ug/Kg		98	60 - 140	8	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Toluene-d8 (Surr)	110		79 - 123								
4-Bromofluorobenzene (Surr)	109		79 - 120								
Dibromofluoromethane (Surr)	103		60 - 120								

Lab Sample ID: MB 440-523577/5

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/19/19 10:52	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/19/19 10:52	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Benzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Bromoform	ND		5.0	2.0	ug/Kg			01/19/19 10:52	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/19/19 10:52	1
Chloroform	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523577/5

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/19/19 10:52	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/19/19 10:52	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/19/19 10:52	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/19/19 10:52	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
o-Xylene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Styrene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Toluene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/19/19 10:52	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			01/19/19 10:52	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			01/19/19 10:52	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			01/19/19 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		79 - 123		01/19/19 10:52	1
4-Bromofluorobenzene (Surr)	117		79 - 120		01/19/19 10:52	1
Dibromofluoromethane (Surr)	108		60 - 120		01/19/19 10:52	1

Lab Sample ID: LCS 440-523577/6

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/Kg		105	70 - 130
1,1,1-Trichloroethane	50.0	55.3		ug/Kg		111	65 - 135
1,1,2,2-Tetrachloroethane	50.0	56.3		ug/Kg		113	55 - 140
1,1,2-Trichloroethane	50.0	57.8		ug/Kg		116	65 - 135
1,1-Dichloroethane	50.0	57.4		ug/Kg		115	70 - 130
1,1-Dichloroethene	50.0	56.5		ug/Kg		113	70 - 125
1,1-Dichloropropene	50.0	54.2		ug/Kg		108	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523577/6

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	60 - 130
1,2,3-Trichloropropane	50.0	56.3		ug/Kg		113	60 - 135
1,2,4-Trichlorobenzene	50.0	48.5		ug/Kg		97	70 - 135
1,2,4-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	65.8		ug/Kg		132	50 - 135
1,2-Dibromoethane (EDB)	50.0	53.7		ug/Kg		107	70 - 130
1,2-Dichlorobenzene	50.0	50.2		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	59.9		ug/Kg		120	60 - 140
1,2-Dichloropropane	50.0	57.6		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	50.0	53.4		ug/Kg		107	70 - 125
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	75 - 125
1,3-Dichloropropane	50.0	57.9		ug/Kg		116	70 - 125
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
2,2-Dichloropropane	50.0	59.8		ug/Kg		120	60 - 145
2-Chlorotoluene	50.0	54.6		ug/Kg		109	70 - 125
4-Chlorotoluene	50.0	56.1		ug/Kg		112	75 - 125
Benzene	50.0	52.9		ug/Kg		106	65 - 120
Bromobenzene	50.0	49.8		ug/Kg		100	75 - 120
Bromochloromethane	50.0	57.5		ug/Kg		115	70 - 135
Bromodichloromethane	50.0	55.5		ug/Kg		111	70 - 135
Bromoform	50.0	55.6		ug/Kg		111	55 - 135
Bromomethane	50.0	53.3		ug/Kg		107	60 - 145
Carbon tetrachloride	50.0	55.8		ug/Kg		112	65 - 140
Chlorobenzene	50.0	49.6		ug/Kg		99	75 - 120
Chloroethane	50.0	53.0		ug/Kg		106	60 - 140
Chloroform	50.0	59.0		ug/Kg		118	70 - 130
Chloromethane	50.0	46.8		ug/Kg		94	45 - 145
cis-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	50.0	60.8		ug/Kg		122	75 - 125
Dibromochloromethane	50.0	55.5		ug/Kg		111	65 - 140
Dibromomethane	50.0	55.4		ug/Kg		111	70 - 130
Dichlorodifluoromethane	50.0	46.1		ug/Kg		92	35 - 160
Ethylbenzene	50.0	53.8		ug/Kg		108	70 - 125
Hexachlorobutadiene	50.0	49.1		ug/Kg		98	60 - 135
Isopropylbenzene	50.0	54.6		ug/Kg		109	75 - 130
m,p-Xylene	50.0	52.9		ug/Kg		106	70 - 125
Methylene Chloride	50.0	57.8		ug/Kg		116	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	61.9		ug/Kg		124	60 - 140
Naphthalene	50.0	51.6		ug/Kg		103	55 - 135
n-Butylbenzene	50.0	55.8		ug/Kg		112	70 - 130
N-Propylbenzene	50.0	55.3		ug/Kg		111	70 - 130
o-Xylene	50.0	52.4		ug/Kg		105	70 - 125
sec-Butylbenzene	50.0	54.6		ug/Kg		109	70 - 125
Styrene	50.0	51.6		ug/Kg		103	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	55.9		ug/Kg		112	60 - 145
tert-Butylbenzene	50.0	54.8		ug/Kg		110	70 - 125
Tetrachloroethene	50.0	48.9		ug/Kg		98	70 - 125
Toluene	50.0	52.7		ug/Kg		105	70 - 125

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523577/6

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	55.1		ug/Kg		110	70 - 125
trans-1,3-Dichloropropene	50.0	64.4		ug/Kg		129	70 - 135
Trichloroethene	50.0	49.3		ug/Kg		99	70 - 125
Trichlorofluoromethane	50.0	54.5		ug/Kg		109	60 - 145
Vinyl chloride	50.0	46.3		ug/Kg		93	55 - 135
Isopropyl Ether (DIPE)	50.0	61.8		ug/Kg		124	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	59.8		ug/Kg		120	60 - 140
tert-Butyl alcohol (TBA)	500	559		ug/Kg		112	70 - 135
p-Isopropyltoluene	50.0	52.3		ug/Kg		105	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		79 - 123
4-Bromofluorobenzene (Surr)	106		79 - 120
Dibromofluoromethane (Surr)	108		60 - 120

Lab Sample ID: 440-230161-22 MS

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: SB5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.3	49.8		ug/Kg		101	65 - 145
1,1,1-Trichloroethane	ND		49.3	53.1		ug/Kg		108	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.3	57.9		ug/Kg		117	40 - 160
1,1,2-Trichloroethane	ND		49.3	58.4		ug/Kg		118	65 - 140
1,1-Dichloroethane	ND		49.3	55.8		ug/Kg		113	65 - 135
1,1-Dichloroethene	ND		49.3	54.7		ug/Kg		111	65 - 135
1,1-Dichloropropene	ND		49.3	50.8		ug/Kg		103	65 - 135
1,2,3-Trichlorobenzene	ND		49.3	49.0		ug/Kg		99	45 - 145
1,2,3-Trichloropropane	ND		49.3	64.4		ug/Kg		131	50 - 150
1,2,4-Trichlorobenzene	ND		49.3	47.8		ug/Kg		97	50 - 140
1,2,4-Trimethylbenzene	ND		49.3	52.1		ug/Kg		106	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.3	70.8		ug/Kg		144	40 - 150
1,2-Dibromoethane (EDB)	ND		49.3	55.0		ug/Kg		111	65 - 140
1,2-Dichlorobenzene	ND		49.3	49.5		ug/Kg		100	70 - 130
1,2-Dichloroethane	ND		49.3	59.0		ug/Kg		120	60 - 150
1,2-Dichloropropane	ND		49.3	53.5		ug/Kg		109	65 - 130
1,3,5-Trimethylbenzene	ND		49.3	52.9		ug/Kg		107	65 - 135
1,3-Dichlorobenzene	ND		49.3	47.9		ug/Kg		97	70 - 130
1,3-Dichloropropane	ND		49.3	55.2		ug/Kg		112	65 - 140
1,4-Dichlorobenzene	ND		49.3	47.7		ug/Kg		97	70 - 130
2,2-Dichloropropane	ND		49.3	56.7		ug/Kg		115	65 - 150
2-Chlorotoluene	ND		49.3	53.2		ug/Kg		108	60 - 135
4-Chlorotoluene	ND		49.3	54.1		ug/Kg		110	65 - 135
Benzene	ND		49.3	51.1		ug/Kg		104	65 - 130
Bromobenzene	ND		49.3	50.4		ug/Kg		102	65 - 140
Bromochloromethane	ND		49.3	55.7		ug/Kg		113	65 - 145
Bromodichloromethane	ND		49.3	54.0		ug/Kg		109	65 - 145
Bromoform	ND		49.3	54.4		ug/Kg		110	50 - 145

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230161-22 MS

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: SB5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND		49.3	51.4		ug/Kg		104	60 - 155
Carbon tetrachloride	ND		49.3	52.3		ug/Kg		106	60 - 145
Chlorobenzene	ND		49.3	47.1		ug/Kg		95	70 - 130
Chloroethane	ND		49.3	50.4		ug/Kg		102	60 - 150
Chloroform	ND		49.3	56.6		ug/Kg		115	65 - 135
Chloromethane	ND		49.3	45.7		ug/Kg		93	40 - 145
cis-1,2-Dichloroethene	ND		49.3	48.0		ug/Kg		97	65 - 135
cis-1,3-Dichloropropene	ND		49.3	58.9		ug/Kg		119	70 - 135
Dibromochloromethane	ND		49.3	55.1		ug/Kg		112	60 - 145
Dibromomethane	ND		49.3	55.8		ug/Kg		113	65 - 140
Dichlorodifluoromethane	ND		49.3	43.7		ug/Kg		89	30 - 160
Ethylbenzene	ND		49.3	50.6		ug/Kg		103	70 - 135
Hexachlorobutadiene	ND		49.3	46.7		ug/Kg		95	50 - 145
Isopropylbenzene	ND		49.3	50.9		ug/Kg		103	70 - 145
m,p-Xylene	ND		49.3	50.1		ug/Kg		102	70 - 130
Methylene Chloride	ND		49.3	57.0		ug/Kg		116	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.3	62.1		ug/Kg		126	55 - 155
Naphthalene	ND		49.3	53.4		ug/Kg		108	40 - 150
n-Butylbenzene	ND		49.3	53.4		ug/Kg		108	55 - 145
N-Propylbenzene	ND		49.3	53.3		ug/Kg		108	65 - 140
o-Xylene	ND		49.3	50.6		ug/Kg		103	65 - 130
sec-Butylbenzene	ND		49.3	53.0		ug/Kg		107	60 - 135
Styrene	ND		49.3	49.8		ug/Kg		101	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.3	56.6		ug/Kg		115	60 - 150
tert-Butylbenzene	ND		49.3	52.4		ug/Kg		106	60 - 140
Tetrachloroethene	ND		49.3	45.7		ug/Kg		93	65 - 135
Toluene	ND		49.3	49.4		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	ND		49.3	54.1		ug/Kg		110	70 - 135
trans-1,3-Dichloropropene	ND		49.3	60.9		ug/Kg		124	60 - 145
Trichloroethene	ND		49.3	48.1		ug/Kg		98	65 - 140
Trichlorofluoromethane	ND		49.3	51.2		ug/Kg		104	55 - 155
Vinyl chloride	ND		49.3	47.1		ug/Kg		96	55 - 140
Isopropyl Ether (DIPE)	ND		49.3	61.2		ug/Kg		124	60 - 150
Ethyl-t-butyl ether (ETBE)	ND		49.3	57.3		ug/Kg		116	60 - 145
tert-Butyl alcohol (TBA)	ND		49.3	51.6		ug/Kg		105	65 - 145
p-Isopropyltoluene	ND		49.3	51.0		ug/Kg		103	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	100		79 - 123
4-Bromofluorobenzene (Surr)	111		79 - 120
Dibromofluoromethane (Surr)	111		60 - 120

Lab Sample ID: 440-230161-22 MSD

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: SB5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.3	48.4		ug/Kg		98	65 - 145	3	20

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230161-22 MSD

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: SB5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		49.3	51.5		ug/Kg		104	65 - 145	3	20
1,1,1,2-Tetrachloroethane	ND		49.3	53.2		ug/Kg		108	40 - 160	9	30
1,1,2-Trichloroethane	ND		49.3	54.6		ug/Kg		111	65 - 140	7	30
1,1-Dichloroethane	ND		49.3	53.9		ug/Kg		109	65 - 135	3	25
1,1-Dichloroethene	ND		49.3	54.2		ug/Kg		110	65 - 135	1	25
1,1-Dichloropropene	ND		49.3	50.6		ug/Kg		103	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		49.3	45.8		ug/Kg		93	45 - 145	7	30
1,2,3-Trichloropropane	ND		49.3	58.0		ug/Kg		118	50 - 150	11	30
1,2,4-Trichlorobenzene	ND		49.3	44.0		ug/Kg		89	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		49.3	52.7		ug/Kg		107	65 - 140	1	25
1,2-Dibromo-3-Chloropropane	ND		49.3	65.2		ug/Kg		132	40 - 150	8	30
1,2-Dibromoethane (EDB)	ND		49.3	51.3		ug/Kg		104	65 - 140	7	25
1,2-Dichlorobenzene	ND		49.3	48.6		ug/Kg		99	70 - 130	2	25
1,2-Dichloroethane	ND		49.3	55.8		ug/Kg		113	60 - 150	6	25
1,2-Dichloropropane	ND		49.3	53.1		ug/Kg		108	65 - 130	1	20
1,3,5-Trimethylbenzene	ND		49.3	51.9		ug/Kg		105	65 - 135	2	25
1,3-Dichlorobenzene	ND		49.3	47.9		ug/Kg		97	70 - 130	0	25
1,3-Dichloropropane	ND		49.3	55.6		ug/Kg		113	65 - 140	1	25
1,4-Dichlorobenzene	ND		49.3	47.3		ug/Kg		96	70 - 130	1	25
2,2-Dichloropropane	ND		49.3	55.2		ug/Kg		112	65 - 150	3	25
2-Chlorotoluene	ND		49.3	54.0		ug/Kg		110	60 - 135	1	25
4-Chlorotoluene	ND		49.3	54.5		ug/Kg		111	65 - 135	1	25
Benzene	ND		49.3	50.1		ug/Kg		102	65 - 130	2	20
Bromobenzene	ND		49.3	49.9		ug/Kg		101	65 - 140	1	25
Bromochloromethane	ND		49.3	52.8		ug/Kg		107	65 - 145	5	25
Bromodichloromethane	ND		49.3	53.1		ug/Kg		108	65 - 145	2	20
Bromoform	ND		49.3	51.7		ug/Kg		105	50 - 145	5	30
Bromomethane	ND		49.3	51.4		ug/Kg		104	60 - 155	0	25
Carbon tetrachloride	ND		49.3	51.7		ug/Kg		105	60 - 145	1	25
Chlorobenzene	ND		49.3	46.6		ug/Kg		94	70 - 130	1	25
Chloroethane	ND		49.3	49.3		ug/Kg		100	60 - 150	2	25
Chloroform	ND		49.3	56.0		ug/Kg		114	65 - 135	1	20
Chloromethane	ND		49.3	43.2		ug/Kg		88	40 - 145	6	25
cis-1,2-Dichloroethene	ND		49.3	48.3		ug/Kg		98	65 - 135	1	25
cis-1,3-Dichloropropene	ND		49.3	58.3		ug/Kg		118	70 - 135	1	25
Dibromochloromethane	ND		49.3	51.6		ug/Kg		105	60 - 145	6	25
Dibromomethane	ND		49.3	53.0		ug/Kg		108	65 - 140	5	25
Dichlorodifluoromethane	ND		49.3	41.9		ug/Kg		85	30 - 160	4	35
Ethylbenzene	ND		49.3	50.4		ug/Kg		102	70 - 135	0	25
Hexachlorobutadiene	ND		49.3	41.8		ug/Kg		85	50 - 145	11	35
Isopropylbenzene	ND		49.3	50.5		ug/Kg		102	70 - 145	1	25
m,p-Xylene	ND		49.3	49.8		ug/Kg		101	70 - 130	0	25
Methylene Chloride	ND		49.3	55.7		ug/Kg		113	55 - 145	2	25
Methyl-t-Butyl Ether (MTBE)	ND		49.3	57.9		ug/Kg		117	55 - 155	7	35
Naphthalene	ND		49.3	49.1		ug/Kg		100	40 - 150	8	40
n-Butylbenzene	ND		49.3	51.4		ug/Kg		104	55 - 145	4	30
N-Propylbenzene	ND		49.3	53.9		ug/Kg		109	65 - 140	1	25
o-Xylene	ND		49.3	50.3		ug/Kg		102	65 - 130	1	25

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230161-22 MSD

Matrix: Solid

Analysis Batch: 523577

Client Sample ID: SB5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		49.3	52.1		ug/Kg		106	60 - 135	2	25
Styrene	ND		49.3	49.0		ug/Kg		99	70 - 140	2	25
Tert-amyl-methyl ether (TAME)	ND		49.3	52.2		ug/Kg		106	60 - 150	8	25
tert-Butylbenzene	ND		49.3	51.9		ug/Kg		105	60 - 140	1	25
Tetrachloroethene	ND		49.3	44.6		ug/Kg		90	65 - 135	2	25
Toluene	ND		49.3	50.5		ug/Kg		102	70 - 130	2	20
trans-1,2-Dichloroethene	ND		49.3	52.8		ug/Kg		107	70 - 135	2	25
trans-1,3-Dichloropropene	ND		49.3	60.5		ug/Kg		123	60 - 145	1	25
Trichloroethene	ND		49.3	49.1		ug/Kg		99	65 - 140	2	25
Trichlorofluoromethane	ND		49.3	50.4		ug/Kg		102	55 - 155	2	25
Vinyl chloride	ND		49.3	43.9		ug/Kg		89	55 - 140	7	30
Isopropyl Ether (DIPE)	ND		49.3	57.3		ug/Kg		116	60 - 150	6	25
Ethyl-t-butyl ether (ETBE)	ND		49.3	55.4		ug/Kg		112	60 - 145	3	30
tert-Butyl alcohol (TBA)	ND		49.3	54.9		ug/Kg		111	65 - 145	6	30
p-Isopropyltoluene	ND		49.3	49.4		ug/Kg		100	60 - 140	3	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	101		79 - 123
4-Bromofluorobenzene (Surr)	112		79 - 120
Dibromofluoromethane (Surr)	108		60 - 120

Lab Sample ID: MB 440-523696/4

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/21/19 08:31	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/21/19 08:31	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523696/4

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Benzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Bromobenzene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Bromoform	ND		5.0	2.0	ug/Kg			01/21/19 08:31	1
Bromomethane	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Chloroethane	ND		5.0	2.0	ug/Kg			01/21/19 08:31	1
Chloroform	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Chloromethane	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Dibromomethane	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			01/21/19 08:31	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			01/21/19 08:31	1
Methylene Chloride	ND		20	5.0	ug/Kg			01/21/19 08:31	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Naphthalene	ND		5.0	2.0	ug/Kg			01/21/19 08:31	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
o-Xylene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Styrene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Toluene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Trichloroethene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			01/21/19 08:31	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			01/21/19 08:31	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			01/21/19 08:31	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			01/21/19 08:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		79 - 123		01/21/19 08:31	1
4-Bromofluorobenzene (Surr)	100		79 - 120		01/21/19 08:31	1
Dibromofluoromethane (Surr)	105		60 - 120		01/21/19 08:31	1

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Lab Sample ID: LCS 440-523696/5

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/Kg		109	70 - 130
1,1,1-Trichloroethane	50.0	61.1		ug/Kg		122	65 - 135
1,1,1,2,2-Tetrachloroethane	50.0	52.9		ug/Kg		106	55 - 140
1,1,2-Trichloroethane	50.0	54.0		ug/Kg		108	65 - 135
1,1-Dichloroethane	50.0	56.3		ug/Kg		113	70 - 130
1,1-Dichloroethene	50.0	59.8		ug/Kg		120	70 - 125
1,1-Dichloropropene	50.0	59.1		ug/Kg		118	70 - 130
1,2,3-Trichlorobenzene	50.0	53.7		ug/Kg		107	60 - 130
1,2,3-Trichloropropane	50.0	58.2		ug/Kg		116	60 - 135
1,2,4-Trichlorobenzene	50.0	57.1		ug/Kg		114	70 - 135
1,2,4-Trimethylbenzene	50.0	52.3		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	53.7		ug/Kg		107	50 - 135
1,2-Dibromoethane (EDB)	50.0	53.2		ug/Kg		106	70 - 130
1,2-Dichlorobenzene	50.0	55.9		ug/Kg		112	75 - 120
1,2-Dichloroethane	50.0	60.1		ug/Kg		120	60 - 140
1,2-Dichloropropane	50.0	55.3		ug/Kg		111	70 - 130
1,3,5-Trimethylbenzene	50.0	52.9		ug/Kg		106	70 - 125
1,3-Dichlorobenzene	50.0	55.3		ug/Kg		111	75 - 125
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 125
1,4-Dichlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
2,2-Dichloropropane	50.0	60.2		ug/Kg		120	60 - 145
2-Chlorotoluene	50.0	52.4		ug/Kg		105	70 - 125
4-Chlorotoluene	50.0	53.0		ug/Kg		106	75 - 125
Benzene	50.0	55.6		ug/Kg		111	65 - 120
Bromobenzene	50.0	55.0		ug/Kg		110	75 - 120
Bromochloromethane	50.0	64.3		ug/Kg		129	70 - 135
Bromodichloromethane	50.0	58.8		ug/Kg		118	70 - 135
Bromoform	50.0	57.5		ug/Kg		115	55 - 135
Bromomethane	50.0	52.6		ug/Kg		105	60 - 145
Carbon tetrachloride	50.0	59.9		ug/Kg		120	65 - 140
Chlorobenzene	50.0	53.3		ug/Kg		107	75 - 120
Chloroethane	50.0	48.4		ug/Kg		97	60 - 140
Chloroform	50.0	59.1		ug/Kg		118	70 - 130
Chloromethane	50.0	45.3		ug/Kg		91	45 - 145
cis-1,2-Dichloroethene	50.0	60.9		ug/Kg		122	70 - 125
cis-1,3-Dichloropropene	50.0	56.0		ug/Kg		112	75 - 125
Dibromochloromethane	50.0	58.0		ug/Kg		116	65 - 140
Dibromomethane	50.0	60.8		ug/Kg		122	70 - 130
Dichlorodifluoromethane	50.0	50.4		ug/Kg		101	35 - 160
Ethylbenzene	50.0	50.4		ug/Kg		101	70 - 125
Hexachlorobutadiene	50.0	52.5		ug/Kg		105	60 - 135
Isopropylbenzene	50.0	51.7		ug/Kg		103	75 - 130
m,p-Xylene	50.0	51.1		ug/Kg		102	70 - 125
Methylene Chloride	50.0	54.5		ug/Kg		109	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	62.7		ug/Kg		125	60 - 140
Naphthalene	50.0	56.9		ug/Kg		114	55 - 135
n-Butylbenzene	50.0	52.0		ug/Kg		104	70 - 130
N-Propylbenzene	50.0	50.9		ug/Kg		102	70 - 130
o-Xylene	50.0	53.8		ug/Kg		108	70 - 125
sec-Butylbenzene	50.0	51.7		ug/Kg		103	70 - 125

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523696/5

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	50.0	46.7		ug/Kg		93	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	58.7		ug/Kg		117	60 - 145
tert-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 125
Tetrachloroethene	50.0	54.9		ug/Kg		110	70 - 125
Toluene	50.0	50.5		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	58.2		ug/Kg		116	70 - 125
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	70 - 135
Trichloroethene	50.0	59.4		ug/Kg		119	70 - 125
Trichlorofluoromethane	50.0	54.4		ug/Kg		109	60 - 145
Vinyl chloride	50.0	45.6		ug/Kg		91	55 - 135
Isopropyl Ether (DIPE)	50.0	56.9		ug/Kg		114	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	57.5		ug/Kg		115	60 - 140
tert-Butyl alcohol (TBA)	500	560		ug/Kg		112	70 - 135
p-Isopropyltoluene	50.0	52.9		ug/Kg		106	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		79 - 123
4-Bromofluorobenzene (Surr)	97		79 - 120
Dibromofluoromethane (Surr)	107		60 - 120

Lab Sample ID: 440-230264-A-4 MS

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.9	55.4		ug/Kg		111	65 - 145
1,1,1-Trichloroethane	ND		49.9	60.4		ug/Kg		121	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.9	49.1		ug/Kg		98	40 - 160
1,1,2-Trichloroethane	ND		49.9	50.5		ug/Kg		101	65 - 140
1,1-Dichloroethane	ND		49.9	53.7		ug/Kg		108	65 - 135
1,1-Dichloroethene	ND		49.9	58.2		ug/Kg		117	65 - 135
1,1-Dichloropropene	ND		49.9	57.8		ug/Kg		116	65 - 135
1,2,3-Trichlorobenzene	ND		49.9	46.2		ug/Kg		93	45 - 145
1,2,3-Trichloropropane	ND		49.9	52.0		ug/Kg		104	50 - 150
1,2,4-Trichlorobenzene	ND		49.9	51.6		ug/Kg		103	50 - 140
1,2,4-Trimethylbenzene	ND		49.9	52.7		ug/Kg		106	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.9	47.4		ug/Kg		95	40 - 150
1,2-Dibromoethane (EDB)	ND		49.9	50.7		ug/Kg		102	65 - 140
1,2-Dichlorobenzene	ND		49.9	53.0		ug/Kg		106	70 - 130
1,2-Dichloroethane	ND		49.9	55.2		ug/Kg		111	60 - 150
1,2-Dichloropropane	ND		49.9	54.4		ug/Kg		109	65 - 130
1,3,5-Trimethylbenzene	ND		49.9	52.5		ug/Kg		105	65 - 135
1,3-Dichlorobenzene	ND		49.9	54.5		ug/Kg		109	70 - 130
1,3-Dichloropropane	ND		49.9	51.0		ug/Kg		102	65 - 140
1,4-Dichlorobenzene	ND		49.9	55.1		ug/Kg		110	70 - 130
2,2-Dichloropropane	ND		49.9	63.4		ug/Kg		127	65 - 150
2-Chlorotoluene	ND		49.9	53.1		ug/Kg		106	60 - 135
4-Chlorotoluene	ND		49.9	52.7		ug/Kg		106	65 - 135

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-4 MS

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.9	54.2		ug/Kg		109	65 - 130
Bromobenzene	ND		49.9	55.0		ug/Kg		110	65 - 140
Bromochloromethane	ND		49.9	60.0		ug/Kg		120	65 - 145
Bromodichloromethane	ND		49.9	56.2		ug/Kg		113	65 - 145
Bromoform	ND		49.9	51.6		ug/Kg		103	50 - 145
Bromomethane	ND		49.9	51.7		ug/Kg		104	60 - 155
Carbon tetrachloride	ND		49.9	59.5		ug/Kg		119	60 - 145
Chlorobenzene	ND		49.9	53.9		ug/Kg		108	70 - 130
Chloroethane	ND		49.9	47.8		ug/Kg		96	60 - 150
Chloroform	ND		49.9	57.5		ug/Kg		115	65 - 135
Chloromethane	ND		49.9	45.0		ug/Kg		90	40 - 145
cis-1,2-Dichloroethene	ND		49.9	60.5		ug/Kg		121	65 - 135
cis-1,3-Dichloropropene	ND		49.9	56.2		ug/Kg		113	70 - 135
Dibromochloromethane	ND		49.9	55.6		ug/Kg		111	60 - 145
Dibromomethane	ND		49.9	54.9		ug/Kg		110	65 - 140
Dichlorodifluoromethane	ND		49.9	49.7		ug/Kg		100	30 - 160
Ethylbenzene	ND		49.9	52.7		ug/Kg		106	70 - 135
Hexachlorobutadiene	ND		49.9	46.4		ug/Kg		93	50 - 145
Isopropylbenzene	ND		49.9	53.3		ug/Kg		107	70 - 145
m,p-Xylene	ND		49.9	52.6		ug/Kg		105	70 - 130
Methylene Chloride	ND		49.9	53.0		ug/Kg		106	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.9	58.3		ug/Kg		117	55 - 155
Naphthalene	ND		49.9	48.0		ug/Kg		96	40 - 150
n-Butylbenzene	ND		49.9	51.0		ug/Kg		102	55 - 145
N-Propylbenzene	ND		49.9	52.0		ug/Kg		104	65 - 140
o-Xylene	ND		49.9	54.9		ug/Kg		110	65 - 130
sec-Butylbenzene	ND		49.9	51.6		ug/Kg		103	60 - 135
Styrene	ND		49.9	47.7		ug/Kg		96	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.9	56.4		ug/Kg		113	60 - 150
tert-Butylbenzene	ND		49.9	53.0		ug/Kg		106	60 - 140
Tetrachloroethene	ND		49.9	57.2		ug/Kg		115	65 - 135
Toluene	ND		49.9	51.9		ug/Kg		104	70 - 130
trans-1,2-Dichloroethene	ND		49.9	55.9		ug/Kg		112	70 - 135
trans-1,3-Dichloropropene	ND		49.9	53.4		ug/Kg		107	60 - 145
Trichloroethene	ND		49.9	60.0		ug/Kg		120	65 - 140
Trichlorofluoromethane	ND		49.9	54.0		ug/Kg		108	55 - 155
Vinyl chloride	ND		49.9	46.2		ug/Kg		93	55 - 140
Isopropyl Ether (DIPE)	ND		49.9	54.7		ug/Kg		110	60 - 150
Ethyl-t-butyl ether (ETBE)	ND		49.9	54.5		ug/Kg		109	60 - 145
tert-Butyl alcohol (TBA)	ND		499	562		ug/Kg		113	65 - 145
p-Isopropyltoluene	ND		49.9	53.2		ug/Kg		107	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	98		79 - 123
4-Bromofluorobenzene (Surr)	98		79 - 120
Dibromofluoromethane (Surr)	107		60 - 120

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-4 MSD

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.9	52.6		ug/Kg		105	65 - 145	5	20
1,1,1-Trichloroethane	ND		49.9	58.5		ug/Kg		117	65 - 145	3	20
1,1,2,2-Tetrachloroethane	ND		49.9	45.8		ug/Kg		92	40 - 160	7	30
1,1,2-Trichloroethane	ND		49.9	48.0		ug/Kg		96	65 - 140	5	30
1,1-Dichloroethane	ND		49.9	53.1		ug/Kg		106	65 - 135	1	25
1,1-Dichloroethene	ND		49.9	54.2		ug/Kg		109	65 - 135	7	25
1,1-Dichloropropene	ND		49.9	56.4		ug/Kg		113	65 - 135	3	20
1,2,3-Trichlorobenzene	ND		49.9	43.3		ug/Kg		87	45 - 145	7	30
1,2,3-Trichloropropane	ND		49.9	50.3		ug/Kg		101	50 - 150	3	30
1,2,4-Trichlorobenzene	ND		49.9	48.2		ug/Kg		97	50 - 140	7	30
1,2,4-Trimethylbenzene	ND		49.9	50.2		ug/Kg		101	65 - 140	5	25
1,2-Dibromo-3-Chloropropane	ND		49.9	45.3		ug/Kg		91	40 - 150	5	30
1,2-Dibromoethane (EDB)	ND		49.9	48.2		ug/Kg		96	65 - 140	5	25
1,2-Dichlorobenzene	ND		49.9	50.8		ug/Kg		102	70 - 130	4	25
1,2-Dichloroethane	ND		49.9	53.3		ug/Kg		107	60 - 150	3	25
1,2-Dichloropropane	ND		49.9	52.7		ug/Kg		106	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		49.9	51.3		ug/Kg		103	65 - 135	2	25
1,3-Dichlorobenzene	ND		49.9	52.1		ug/Kg		104	70 - 130	5	25
1,3-Dichloropropane	ND		49.9	47.4		ug/Kg		95	65 - 140	7	25
1,4-Dichlorobenzene	ND		49.9	52.5		ug/Kg		105	70 - 130	5	25
2,2-Dichloropropane	ND		49.9	59.9		ug/Kg		120	65 - 150	6	25
2-Chlorotoluene	ND		49.9	50.6		ug/Kg		101	60 - 135	5	25
4-Chlorotoluene	ND		49.9	50.4		ug/Kg		101	65 - 135	5	25
Benzene	ND		49.9	52.4		ug/Kg		105	65 - 130	3	20
Bromobenzene	ND		49.9	53.4		ug/Kg		107	65 - 140	3	25
Bromochloromethane	ND		49.9	56.0		ug/Kg		112	65 - 145	7	25
Bromodichloromethane	ND		49.9	55.2		ug/Kg		111	65 - 145	2	20
Bromoform	ND		49.9	48.9		ug/Kg		98	50 - 145	5	30
Bromomethane	ND		49.9	50.1		ug/Kg		100	60 - 155	3	25
Carbon tetrachloride	ND		49.9	57.5		ug/Kg		115	60 - 145	3	25
Chlorobenzene	ND		49.9	50.4		ug/Kg		101	70 - 130	7	25
Chloroethane	ND		49.9	46.5		ug/Kg		93	60 - 150	3	25
Chloroform	ND		49.9	55.4		ug/Kg		111	65 - 135	4	20
Chloromethane	ND		49.9	42.8		ug/Kg		86	40 - 145	5	25
cis-1,2-Dichloroethene	ND		49.9	56.9		ug/Kg		114	65 - 135	6	25
cis-1,3-Dichloropropene	ND		49.9	52.5		ug/Kg		105	70 - 135	7	25
Dibromochloromethane	ND		49.9	52.4		ug/Kg		105	60 - 145	6	25
Dibromomethane	ND		49.9	53.3		ug/Kg		107	65 - 140	3	25
Dichlorodifluoromethane	ND		49.9	47.8		ug/Kg		96	30 - 160	4	35
Ethylbenzene	ND		49.9	49.5		ug/Kg		99	70 - 135	6	25
Hexachlorobutadiene	ND		49.9	44.8		ug/Kg		90	50 - 145	4	35
Isopropylbenzene	ND		49.9	51.0		ug/Kg		102	70 - 145	4	25
m,p-Xylene	ND		49.9	49.5		ug/Kg		99	70 - 130	6	25
Methylene Chloride	ND		49.9	51.5		ug/Kg		103	55 - 145	3	25
Methyl-t-Butyl Ether (MTBE)	ND		49.9	54.1		ug/Kg		108	55 - 155	8	35
Naphthalene	ND		49.9	45.3		ug/Kg		91	40 - 150	6	40
n-Butylbenzene	ND		49.9	48.5		ug/Kg		97	55 - 145	5	30
N-Propylbenzene	ND		49.9	50.4		ug/Kg		101	65 - 140	3	25

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-4 MSD

Matrix: Solid

Analysis Batch: 523696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	ND		49.9	51.7		ug/Kg		104	65 - 130	6	25
sec-Butylbenzene	ND		49.9	49.2		ug/Kg		99	60 - 135	5	25
Styrene	ND		49.9	44.0		ug/Kg		88	70 - 140	8	25
Tert-amyl-methyl ether (TAME)	ND		49.9	53.3		ug/Kg		107	60 - 150	6	25
tert-Butylbenzene	ND		49.9	51.0		ug/Kg		102	60 - 140	4	25
Tetrachloroethene	ND		49.9	55.9		ug/Kg		112	65 - 135	2	25
Toluene	ND		49.9	49.5		ug/Kg		99	70 - 130	5	20
trans-1,2-Dichloroethene	ND		49.9	55.8		ug/Kg		112	70 - 135	0	25
trans-1,3-Dichloropropene	ND		49.9	49.6		ug/Kg		99	60 - 145	8	25
Trichloroethene	ND		49.9	58.1		ug/Kg		116	65 - 140	3	25
Trichlorofluoromethane	ND		49.9	52.2		ug/Kg		105	55 - 155	3	25
Vinyl chloride	ND		49.9	43.4		ug/Kg		87	55 - 140	6	30
Isopropyl Ether (DIPE)	ND		49.9	52.5		ug/Kg		105	60 - 150	4	25
Ethyl-t-butyl ether (ETBE)	ND		49.9	51.8		ug/Kg		104	60 - 145	5	30
tert-Butyl alcohol (TBA)	ND		499	535		ug/Kg		107	65 - 145	5	30
p-Isopropyltoluene	ND		49.9	51.1		ug/Kg		102	60 - 140	4	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	96		79 - 123
4-Bromofluorobenzene (Surr)	100		79 - 120
Dibromofluoromethane (Surr)	107		60 - 120

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-523219/18

Matrix: Solid

Analysis Batch: 523219

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/17/19 18:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		65 - 140		01/17/19 18:48	1

Lab Sample ID: LCS 440-523219/16

Matrix: Solid

Analysis Batch: 523219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1600	1450		ug/Kg		91	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		65 - 140

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-523219/17

Matrix: Solid

Analysis Batch: 523219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1400		ug/Kg		87	70 - 135	4	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		65 - 140						

Lab Sample ID: 440-230161-2 MS

Matrix: Solid

Analysis Batch: 523219

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1580	1490		ug/Kg		94	60 - 140		
Surrogate	%Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	110		65 - 140								

Lab Sample ID: 440-230161-2 MSD

Matrix: Solid

Analysis Batch: 523219

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1480		ug/Kg		93	60 - 140	1	30
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		65 - 140								

Lab Sample ID: MB 440-523445/5

Matrix: Solid

Analysis Batch: 523445

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/18/19 14:10	1
Surrogate	%Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		65 - 140						

Lab Sample ID: LCS 440-523445/3

Matrix: Solid

Analysis Batch: 523445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1500		ug/Kg		94	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		65 - 140						

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-523445/4

Matrix: Solid

Analysis Batch: 523445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1610		ug/Kg		100	70 - 135	7	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		65 - 140						

Lab Sample ID: 440-230161-29 MS

Matrix: Solid

Analysis Batch: 523445

Client Sample ID: SB6-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1510		ug/Kg		95	60 - 140		
Surrogate	%Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		65 - 140								

Lab Sample ID: 440-230161-29 MSD

Matrix: Solid

Analysis Batch: 523445

Client Sample ID: SB6-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1480		ug/Kg		93	60 - 140	2	30
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		65 - 140								

Lab Sample ID: MB 440-523713/5

Matrix: Solid

Analysis Batch: 523713

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/21/19 09:53	1
Surrogate	%Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		65 - 140						

Lab Sample ID: LCS 440-523713/3

Matrix: Solid

Analysis Batch: 523713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1420		ug/Kg		89	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		65 - 140						

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-523713/4

Matrix: Solid

Analysis Batch: 523713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1430		ug/Kg		90	70 - 135	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		65 - 140						

Lab Sample ID: 440-230161-46 MS

Matrix: Solid

Analysis Batch: 523713

Client Sample ID: SB9-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1570	1040		ug/Kg		66	60 - 140		
Surrogate	%Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		65 - 140								

Lab Sample ID: 440-230161-46 MSD

Matrix: Solid

Analysis Batch: 523713

Client Sample ID: SB9-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1060		ug/Kg		67	60 - 140	2	30
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		65 - 140								

Lab Sample ID: MB 440-523720/6

Matrix: Solid

Analysis Batch: 523720

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		40000	20000	ug/Kg			01/21/19 11:27	100
Surrogate	%Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		65 - 140						

Lab Sample ID: LCS 440-523720/7

Matrix: Solid

Analysis Batch: 523720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	160000	147000		ug/Kg		92	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		65 - 140						

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-523720/8

Matrix: Solid

Analysis Batch: 523720

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	160000	149000		ug/Kg		93	70 - 135	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	114		65 - 140						

Lab Sample ID: MB 440-525301/5

Matrix: Solid

Analysis Batch: 525301

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			01/28/19 12:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	100		65 - 140		01/28/19 12:12	1			

Lab Sample ID: LCS 440-525301/3

Matrix: Solid

Analysis Batch: 525301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1370		ug/Kg	-	86	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		65 - 140								

Lab Sample ID: LCSD 440-525301/4

Matrix: Solid

Analysis Batch: 525301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1300		ug/Kg		81	70 - 135	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		65 - 140						

Lab Sample ID: 440-230161-43 MS

Matrix: Solid

Analysis Batch: 525301

Client Sample ID: SB9-0.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1580	1120		ug/Kg	-	71	60 - 140		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-230161-43 MSD

Matrix: Solid

Analysis Batch: 525301

Client Sample ID: SB9-0.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1100		ug/Kg		69	60 - 140	2	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		65 - 140								

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Lab Sample ID: MB 440-522725/1-A

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 522725

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		01/16/19 07:11	01/16/19 23:59	1
C23-C40	3.14	J	5.0	2.5	mg/Kg		01/16/19 07:11	01/16/19 23:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane	94		40 - 140			01/16/19 07:11	01/16/19 23:59	1	

Lab Sample ID: LCS 440-522725/2-A

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 522725

Analysis Data: 02/17/00			Top Data: 02/17/00								
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	57.2		mg/Kg	-	86	45 - 115		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
n-Octacosane	91		40 - 140								

Lab Sample ID: 440-230161-2 MS

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Prep Batch: 522725

Top Data: 02/1/00									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	3.2	J	66.1	56.9		mg/Kg	-	81	40 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane	88		40 - 140						

Lab Sample ID: 440-230161-2 MSD

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Prep Batch: 522725

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	3.2	J	66.4	58.1		mg/Kg		83	40 - 120	2	30

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Lab Sample ID: 440-230161-2 MSD

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: SB1-2.5

Prep Type: Total/NA

Prep Batch: 522725

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	93		40 - 140

Lab Sample ID: MB 440-522727/1-A

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 522727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		01/16/19 07:23	01/16/19 15:09	1
C23-C40	2.88	J	5.0	2.5	mg/Kg		01/16/19 07:23	01/16/19 15:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140				01/16/19 07:23	01/16/19 15:09	1

Lab Sample ID: LCS 440-522727/2-A

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 522727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.7	60.6		mg/Kg		91	45 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane	97		40 - 140				

Lab Sample ID: 440-230037-G-9-C MS

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 522727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	2.7	J	65.2	53.4		mg/Kg		78	40 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane	89		40 - 140						

Lab Sample ID: 440-230037-G-9-D MSD

Matrix: Solid

Analysis Batch: 522739

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 522727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	2.7	J	66.2	58.7		mg/Kg		85	40 - 120	9	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane	92		40 - 140								

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Lab Sample ID: MB 440-525292/1-A

Matrix: Solid

Analysis Batch: 525506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 525292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 13:14	1
C23-C40	2.53	J	5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 13:14	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	84		40 - 140				01/28/19 09:36	01/29/19 13:14	1

Lab Sample ID: LCS 440-525292/2-A

Matrix: Solid

Analysis Batch: 525506

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 525292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
C10-C28	66.7	57.7		mg/Kg		86	45 - 115
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane	88		40 - 140				

Lab Sample ID: 720-91011-F-8-A MS

Matrix: Solid

Analysis Batch: 525506

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 525292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
C10-C28	370		66.6	249	4	mg/Kg		-179	40 - 120
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane	75		40 - 140						

Lab Sample ID: 720-91011-F-8-B MSD

Matrix: Solid

Analysis Batch: 525506

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 525292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	370		66.5	211	4	mg/Kg		-237	40 - 120	17	30
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane	81		40 - 140								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-523104/1-A ^5

Matrix: Solid

Analysis Batch: 523631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 523104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Arsenic	ND		3.0	1.5	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Barium	ND		1.5	0.75	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Beryllium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:14	5

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-523104/1-A ^5

Matrix: Solid

Analysis Batch: 523631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 523104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50	0.25	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Chromium	ND		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Cobalt	ND		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Copper	ND		2.0	1.1	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Lead	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Nickel	ND		2.0	1.0	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Selenium	ND		3.0	1.7	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Thallium	ND		10	5.0	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Vanadium	ND		1.0	0.50	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Zinc	ND		5.0	2.5	mg/Kg		01/17/19 10:53	01/18/19 22:14	5
Silver	ND		1.5	0.89	mg/Kg		01/17/19 10:53	01/18/19 22:14	5

Lab Sample ID: LCS 440-523104/2-A ^5

Matrix: Solid

Analysis Batch: 523631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 523104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.9		mg/Kg		100	80 - 120
Arsenic	50.0	47.3		mg/Kg		95	80 - 120
Barium	50.0	49.0		mg/Kg		98	80 - 120
Beryllium	50.0	47.6		mg/Kg		95	80 - 120
Cadmium	50.0	47.4		mg/Kg		95	80 - 120
Chromium	50.0	49.0		mg/Kg		98	80 - 120
Cobalt	50.0	48.3		mg/Kg		97	80 - 120
Copper	50.0	49.2		mg/Kg		98	80 - 120
Lead	50.0	48.5		mg/Kg		97	80 - 120
Molybdenum	50.0	48.7		mg/Kg		97	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	50.0	44.4		mg/Kg		89	80 - 120
Thallium	50.0	48.1		mg/Kg		96	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120
Silver	25.0	24.2		mg/Kg		97	80 - 120

Lab Sample ID: 440-230161-1 MS

Matrix: Solid

Analysis Batch: 523631

Client Sample ID: SB1-0.5

Prep Type: Total/NA

Prep Batch: 523104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	49.8	28.0	F1	mg/Kg		56	75 - 125
Arsenic	2.2	J	49.8	50.4		mg/Kg		97	75 - 125
Barium	76		49.8	123		mg/Kg		95	75 - 125
Beryllium	0.42	J	49.8	46.7		mg/Kg		93	75 - 125
Cadmium	0.85		49.8	44.5		mg/Kg		88	75 - 125
Chromium	20		49.8	67.5		mg/Kg		96	75 - 125
Cobalt	7.4		49.8	50.8		mg/Kg		87	75 - 125
Copper	50		49.8	94.8		mg/Kg		90	75 - 125
Lead	17		49.8	60.2		mg/Kg		87	75 - 125

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-230161-1 MS

Matrix: Solid

Analysis Batch: 523631

Client Sample ID: SB1-0.5

Prep Type: Total/NA

Prep Batch: 523104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	ND		49.8	46.1		mg/Kg		93	75 - 125
Nickel	15		49.8	57.4		mg/Kg		86	75 - 125
Selenium	ND		49.8	44.4		mg/Kg		89	75 - 125
Thallium	ND		49.8	43.2		mg/Kg		87	75 - 125
Vanadium	42		49.8	95.4		mg/Kg		107	75 - 125
Zinc	65		49.8	104		mg/Kg		79	75 - 125
Silver	ND		24.9	22.6		mg/Kg		91	75 - 125

Lab Sample ID: 440-230161-1 MSD

Matrix: Solid

Analysis Batch: 523631

Client Sample ID: SB1-0.5

Prep Type: Total/NA

Prep Batch: 523104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	ND	F1	49.3	26.0	F1	mg/Kg		53	75 - 125	7	20
Arsenic	2.2	J	49.3	48.2		mg/Kg		93	75 - 125	4	20
Barium	76		49.3	123		mg/Kg		95	75 - 125	1	20
Beryllium	0.42	J	49.3	47.3		mg/Kg		95	75 - 125	1	20
Cadmium	0.85		49.3	44.9		mg/Kg		89	75 - 125	1	20
Chromium	20		49.3	68.9		mg/Kg		100	75 - 125	2	20
Cobalt	7.4		49.3	50.9		mg/Kg		88	75 - 125	0	20
Copper	50		49.3	97.8		mg/Kg		97	75 - 125	3	20
Lead	17		49.3	61.5		mg/Kg		90	75 - 125	2	20
Molybdenum	ND		49.3	46.5		mg/Kg		94	75 - 125	1	20
Nickel	15		49.3	58.2		mg/Kg		88	75 - 125	2	20
Selenium	ND		49.3	43.4		mg/Kg		88	75 - 125	2	20
Thallium	ND		49.3	43.0		mg/Kg		87	75 - 125	0	20
Vanadium	42		49.3	97.8		mg/Kg		113	75 - 125	2	20
Zinc	65		49.3	107		mg/Kg		85	75 - 125	3	20
Silver	ND		24.6	22.8		mg/Kg		93	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-523293/1-A

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 523293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/18/19 11:28	01/18/19 15:53	1

Lab Sample ID: LCS 440-523293/2-A

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 523293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.929		mg/Kg		116	80 - 120

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-229797-A-3-B MS

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 523293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.784	0.655		mg/Kg		83	75 - 125

Lab Sample ID: 440-229797-A-3-C MSD

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 523293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.800	0.693		mg/Kg		87	75 - 125	6	20

Lab Sample ID: MB 440-523296/1-A

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 523296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/18/19 11:35	01/18/19 16:42	1

Lab Sample ID: LCS 440-523296/2-A

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 523296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.899		mg/Kg		112	80 - 120

Lab Sample ID: 440-229797-C-4-B MS

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 523296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.784	0.650		mg/Kg		83	75 - 125

Lab Sample ID: 440-229797-C-4-C MSD

Matrix: Solid

Analysis Batch: 523840

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 523296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.784	0.670		mg/Kg		85	75 - 125	3	20

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

GC/MS VOA

Analysis Batch: 523324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-2	SB1-2.5	Total/NA	Solid	8260B	
440-230161-7	SB2-2.5	Total/NA	Solid	8260B	
440-230161-12	SB3-2.5	Total/NA	Solid	8260B	
440-230161-17	SB4-2.5	Total/NA	Solid	8260B	
440-230161-27	SB6-2.5	Total/NA	Solid	8260B	
MB 440-523324/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-523324/5	Lab Control Sample	Total/NA	Solid	8260B	
440-230161-2 MS	SB1-2.5	Total/NA	Solid	8260B	
440-230161-2 MSD	SB1-2.5	Total/NA	Solid	8260B	

Analysis Batch: 523577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-22	SB5-2.5	Total/NA	Solid	8260B	
440-230161-28	SB6-5	Total/NA	Solid	8260B	
440-230161-32	SB7-2.5	Total/NA	Solid	8260B	
440-230161-37	SB8-2.5	Total/NA	Solid	8260B	
440-230161-49	SB9-25	Total/NA	Solid	8260B	
440-230161-50	SB9-30	Total/NA	Solid	8260B	
MB 440-523577/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-523577/6	Lab Control Sample	Total/NA	Solid	8260B	
440-230161-22 MS	SB5-2.5	Total/NA	Solid	8260B	
440-230161-22 MSD	SB5-2.5	Total/NA	Solid	8260B	

Analysis Batch: 523696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-45	SB9-5	Total/NA	Solid	8260B	
MB 440-523696/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-523696/5	Lab Control Sample	Total/NA	Solid	8260B	
440-230264-A-4 MS	Matrix Spike	Total/NA	Solid	8260B	
440-230264-A-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

GC VOA

Analysis Batch: 523219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-2	SB1-2.5	Total/NA	Solid	8015B	
440-230161-4	SB1-10	Total/NA	Solid	8015B	
440-230161-7	SB2-2.5	Total/NA	Solid	8015B	
440-230161-9	SB2-10	Total/NA	Solid	8015B	
440-230161-12	SB3-2.5	Total/NA	Solid	8015B	
440-230161-14	SB3-10	Total/NA	Solid	8015B	
440-230161-17	SB4-2.5	Total/NA	Solid	8015B	
440-230161-19	SB4-10	Total/NA	Solid	8015B	
440-230161-22	SB5-2.5	Total/NA	Solid	8015B	
440-230161-24	SB5-10	Total/NA	Solid	8015B	
MB 440-523219/18	Method Blank	Total/NA	Solid	8015B	
LCS 440-523219/16	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-523219/17	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-230161-2 MS	SB1-2.5	Total/NA	Solid	8015B	
440-230161-2 MSD	SB1-2.5	Total/NA	Solid	8015B	

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

GC VOA (Continued)

Analysis Batch: 523445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-27	SB6-2.5	Total/NA	Solid	8015B	
440-230161-28	SB6-5	Total/NA	Solid	8015B	
440-230161-29	SB6-10	Total/NA	Solid	8015B	
440-230161-32	SB7-2.5	Total/NA	Solid	8015B	
440-230161-34	SB7-10	Total/NA	Solid	8015B	
440-230161-37	SB8-2.5	Total/NA	Solid	8015B	
440-230161-39	SB8-10	Total/NA	Solid	8015B	
440-230161-49	SB9-25	Total/NA	Solid	8015B	
440-230161-50	SB9-30	Total/NA	Solid	8015B	
440-230161-51	SB9-35	Total/NA	Solid	8015B	
MB 440-523445/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-523445/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-523445/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-230161-29 MS	SB6-10	Total/NA	Solid	8015B	
440-230161-29 MSD	SB6-10	Total/NA	Solid	8015B	

Analysis Batch: 523713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-46	SB9-10	Total/NA	Solid	8015B	
440-230161-48	SB9-20	Total/NA	Solid	8015B	
MB 440-523713/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-523713/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-523713/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-230161-46 MS	SB9-10	Total/NA	Solid	8015B	
440-230161-46 MSD	SB9-10	Total/NA	Solid	8015B	

Analysis Batch: 523720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-45	SB9-5	Total/NA	Solid	8015B	523778
MB 440-523720/6	Method Blank	Total/NA	Solid	8015B	
LCS 440-523720/7	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-523720/8	Lab Control Sample Dup	Total/NA	Solid	8015B	

Prep Batch: 523778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-45	SB9-5	Total/NA	Solid	5030B	

Analysis Batch: 525301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-43	SB9-0.5	Total/NA	Solid	8015B	
440-230161-44	SB9-2.5	Total/NA	Solid	8015B	
MB 440-525301/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-525301/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-525301/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-230161-43 MS	SB9-0.5	Total/NA	Solid	8015B	
440-230161-43 MSD	SB9-0.5	Total/NA	Solid	8015B	

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

GC Semi VOA

Prep Batch: 522725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-2	SB1-2.5	Total/NA	Solid	3546	
440-230161-4	SB1-10	Total/NA	Solid	3546	
440-230161-7	SB2-2.5	Total/NA	Solid	3546	
440-230161-9	SB2-10	Total/NA	Solid	3546	
440-230161-12	SB3-2.5	Total/NA	Solid	3546	
440-230161-14	SB3-10	Total/NA	Solid	3546	
440-230161-17	SB4-2.5	Total/NA	Solid	3546	
440-230161-19	SB4-10	Total/NA	Solid	3546	
440-230161-22	SB5-2.5	Total/NA	Solid	3546	
440-230161-24	SB5-10	Total/NA	Solid	3546	
440-230161-27	SB6-2.5	Total/NA	Solid	3546	
440-230161-28	SB6-5	Total/NA	Solid	3546	
440-230161-29	SB6-10	Total/NA	Solid	3546	
440-230161-32	SB7-2.5	Total/NA	Solid	3546	
440-230161-34	SB7-10	Total/NA	Solid	3546	
440-230161-37	SB8-2.5	Total/NA	Solid	3546	
440-230161-39	SB8-10	Total/NA	Solid	3546	
440-230161-45	SB9-5	Total/NA	Solid	3546	
440-230161-46	SB9-10	Total/NA	Solid	3546	
440-230161-48	SB9-20	Total/NA	Solid	3546	
MB 440-522725/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522725/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-230161-2 MS	SB1-2.5	Total/NA	Solid	3546	
440-230161-2 MSD	SB1-2.5	Total/NA	Solid	3546	

Prep Batch: 522727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-49	SB9-25	Total/NA	Solid	3546	
440-230161-50	SB9-30	Total/NA	Solid	3546	
440-230161-51	SB9-35	Total/NA	Solid	3546	
MB 440-522727/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522727/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-230037-G-9-C MS	Matrix Spike	Total/NA	Solid	3546	
440-230037-G-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 522739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-2	SB1-2.5	Total/NA	Solid	8015B	522725
440-230161-4	SB1-10	Total/NA	Solid	8015B	522725
440-230161-9	SB2-10	Total/NA	Solid	8015B	522725
440-230161-14	SB3-10	Total/NA	Solid	8015B	522725
440-230161-19	SB4-10	Total/NA	Solid	8015B	522725
440-230161-24	SB5-10	Total/NA	Solid	8015B	522725
440-230161-29	SB6-10	Total/NA	Solid	8015B	522725
440-230161-39	SB8-10	Total/NA	Solid	8015B	522725
440-230161-48	SB9-20	Total/NA	Solid	8015B	522725
440-230161-49	SB9-25	Total/NA	Solid	8015B	522727
440-230161-50	SB9-30	Total/NA	Solid	8015B	522727
440-230161-51	SB9-35	Total/NA	Solid	8015B	522727
MB 440-522725/1-A	Method Blank	Total/NA	Solid	8015B	522725
MB 440-522727/1-A	Method Blank	Total/NA	Solid	8015B	522727

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

GC Semi VOA (Continued)

Analysis Batch: 522739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-522725/2-A	Lab Control Sample	Total/NA	Solid	8015B	522725
LCS 440-522727/2-A	Lab Control Sample	Total/NA	Solid	8015B	522727
440-230037-G-9-C MS	Matrix Spike	Total/NA	Solid	8015B	522727
440-230037-G-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	522727
440-230161-2 MS	SB1-2.5	Total/NA	Solid	8015B	522725
440-230161-2 MSD	SB1-2.5	Total/NA	Solid	8015B	522725

Analysis Batch: 522742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-7	SB2-2.5	Total/NA	Solid	8015B	522725
440-230161-12	SB3-2.5	Total/NA	Solid	8015B	522725
440-230161-17	SB4-2.5	Total/NA	Solid	8015B	522725
440-230161-22	SB5-2.5	Total/NA	Solid	8015B	522725
440-230161-32	SB7-2.5	Total/NA	Solid	8015B	522725
440-230161-34	SB7-10	Total/NA	Solid	8015B	522725
440-230161-37	SB8-2.5	Total/NA	Solid	8015B	522725
440-230161-45	SB9-5	Total/NA	Solid	8015B	522725
440-230161-46	SB9-10	Total/NA	Solid	8015B	522725

Analysis Batch: 523032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-27	SB6-2.5	Total/NA	Solid	8015B	522725

Analysis Batch: 523034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-28	SB6-5	Total/NA	Solid	8015B	522725

Prep Batch: 525292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-43	SB9-0.5	Total/NA	Solid	3546	
440-230161-44	SB9-2.5	Total/NA	Solid	3546	
MB 440-525292/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525292/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-F-8-A MS	Matrix Spike	Total/NA	Solid	3546	
720-91011-F-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 525506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-43	SB9-0.5	Total/NA	Solid	8015B	525292
440-230161-44	SB9-2.5	Total/NA	Solid	8015B	525292
MB 440-525292/1-A	Method Blank	Total/NA	Solid	8015B	525292
LCS 440-525292/2-A	Lab Control Sample	Total/NA	Solid	8015B	525292
720-91011-F-8-A MS	Matrix Spike	Total/NA	Solid	8015B	525292
720-91011-F-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	525292

Metals

Prep Batch: 523104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-1	SB1-0.5	Total/NA	Solid	3050B	

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Metals (Continued)

Prep Batch: 523104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-2	SB1-2.5	Total/NA	Solid	3050B	
440-230161-6	SB2-0.5	Total/NA	Solid	3050B	
440-230161-7	SB2-2.5	Total/NA	Solid	3050B	
440-230161-11	SB3-0.5	Total/NA	Solid	3050B	
440-230161-12	SB3-2.5	Total/NA	Solid	3050B	
440-230161-16	SB4-0.5	Total/NA	Solid	3050B	
440-230161-17	SB4-2.5	Total/NA	Solid	3050B	
440-230161-21	SB5-0.5	Total/NA	Solid	3050B	
440-230161-22	SB5-2.5	Total/NA	Solid	3050B	
440-230161-26	SB6-0.5	Total/NA	Solid	3050B	
440-230161-27	SB6-2.5	Total/NA	Solid	3050B	
440-230161-31	SB7-0.5	Total/NA	Solid	3050B	
440-230161-32	SB7-2.5	Total/NA	Solid	3050B	
440-230161-36	SB8-0.5	Total/NA	Solid	3050B	
440-230161-37	SB8-2.5	Total/NA	Solid	3050B	
440-230161-43	SB9-0.5	Total/NA	Solid	3050B	
440-230161-44	SB9-2.5	Total/NA	Solid	3050B	
MB 440-523104/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-523104/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-230161-1 MS	SB1-0.5	Total/NA	Solid	3050B	
440-230161-1 MSD	SB1-0.5	Total/NA	Solid	3050B	

Prep Batch: 523293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-1	SB1-0.5	Total/NA	Solid	7471A	
440-230161-2	SB1-2.5	Total/NA	Solid	7471A	
440-230161-7	SB2-2.5	Total/NA	Solid	7471A	
440-230161-11	SB3-0.5	Total/NA	Solid	7471A	
440-230161-12	SB3-2.5	Total/NA	Solid	7471A	
440-230161-16	SB4-0.5	Total/NA	Solid	7471A	
440-230161-17	SB4-2.5	Total/NA	Solid	7471A	
440-230161-21	SB5-0.5	Total/NA	Solid	7471A	
440-230161-22	SB5-2.5	Total/NA	Solid	7471A	
440-230161-26	SB6-0.5	Total/NA	Solid	7471A	
440-230161-27	SB6-2.5	Total/NA	Solid	7471A	
440-230161-32	SB7-2.5	Total/NA	Solid	7471A	
440-230161-36	SB8-0.5	Total/NA	Solid	7471A	
440-230161-37	SB8-2.5	Total/NA	Solid	7471A	
MB 440-523293/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-523293/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-229797-A-3-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-229797-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 523296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-6	SB2-0.5	Total/NA	Solid	7471A	
440-230161-31	SB7-0.5	Total/NA	Solid	7471A	
440-230161-43	SB9-0.5	Total/NA	Solid	7471A	
440-230161-44	SB9-2.5	Total/NA	Solid	7471A	
MB 440-523296/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-523296/2-A	Lab Control Sample	Total/NA	Solid	7471A	

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Metals (Continued)

Prep Batch: 523296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-229797-C-4-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-229797-C-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 523631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-1	SB1-0.5	Total/NA	Solid	6010B	523104
440-230161-2	SB1-2.5	Total/NA	Solid	6010B	523104
440-230161-6	SB2-0.5	Total/NA	Solid	6010B	523104
440-230161-7	SB2-2.5	Total/NA	Solid	6010B	523104
440-230161-11	SB3-0.5	Total/NA	Solid	6010B	523104
440-230161-12	SB3-2.5	Total/NA	Solid	6010B	523104
440-230161-16	SB4-0.5	Total/NA	Solid	6010B	523104
440-230161-17	SB4-2.5	Total/NA	Solid	6010B	523104
440-230161-21	SB5-0.5	Total/NA	Solid	6010B	523104
440-230161-22	SB5-2.5	Total/NA	Solid	6010B	523104
440-230161-26	SB6-0.5	Total/NA	Solid	6010B	523104
440-230161-27	SB6-2.5	Total/NA	Solid	6010B	523104
440-230161-31	SB7-0.5	Total/NA	Solid	6010B	523104
440-230161-32	SB7-2.5	Total/NA	Solid	6010B	523104
440-230161-36	SB8-0.5	Total/NA	Solid	6010B	523104
440-230161-37	SB8-2.5	Total/NA	Solid	6010B	523104
440-230161-43	SB9-0.5	Total/NA	Solid	6010B	523104
440-230161-44	SB9-2.5	Total/NA	Solid	6010B	523104
MB 440-523104/1-A ^5	Method Blank	Total/NA	Solid	6010B	523104
LCS 440-523104/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	523104
440-230161-1 MS	SB1-0.5	Total/NA	Solid	6010B	523104
440-230161-1 MSD	SB1-0.5	Total/NA	Solid	6010B	523104

Analysis Batch: 523840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-230161-1	SB1-0.5	Total/NA	Solid	7471A	523293
440-230161-2	SB1-2.5	Total/NA	Solid	7471A	523293
440-230161-6	SB2-0.5	Total/NA	Solid	7471A	523296
440-230161-7	SB2-2.5	Total/NA	Solid	7471A	523293
440-230161-11	SB3-0.5	Total/NA	Solid	7471A	523293
440-230161-12	SB3-2.5	Total/NA	Solid	7471A	523293
440-230161-16	SB4-0.5	Total/NA	Solid	7471A	523293
440-230161-17	SB4-2.5	Total/NA	Solid	7471A	523293
440-230161-21	SB5-0.5	Total/NA	Solid	7471A	523293
440-230161-22	SB5-2.5	Total/NA	Solid	7471A	523293
440-230161-26	SB6-0.5	Total/NA	Solid	7471A	523293
440-230161-27	SB6-2.5	Total/NA	Solid	7471A	523293
440-230161-31	SB7-0.5	Total/NA	Solid	7471A	523296
440-230161-32	SB7-2.5	Total/NA	Solid	7471A	523293
440-230161-36	SB8-0.5	Total/NA	Solid	7471A	523293
440-230161-37	SB8-2.5	Total/NA	Solid	7471A	523293
440-230161-43	SB9-0.5	Total/NA	Solid	7471A	523296
440-230161-44	SB9-2.5	Total/NA	Solid	7471A	523296
MB 440-523293/1-A	Method Blank	Total/NA	Solid	7471A	523293
MB 440-523296/1-A	Method Blank	Total/NA	Solid	7471A	523296
LCS 440-523293/2-A	Lab Control Sample	Total/NA	Solid	7471A	523293

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Metals (Continued)

Analysis Batch: 523840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-523296/2-A	Lab Control Sample	Total/NA	Solid	7471A	523296
440-229797-A-3-B MS	Matrix Spike	Total/NA	Solid	7471A	523293
440-229797-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	523293
440-229797-C-4-B MS	Matrix Spike	Total/NA	Solid	7471A	523296
440-229797-C-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	523296

Definitions/Glossary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Irvine

Accreditation/Certification Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-230161-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B	3546	Solid	C13-C22
8015B	3546	Solid	C23-C40
8015B	5030B	Solid	GRO (C4-C12)
8260B		Solid	Ethyl-t-butyl ether (ETBE)
8260B		Solid	Isopropyl Ether (DIPE)
8260B		Solid	m,p-Xylene
8260B		Solid	Tert-amyl-methyl ether (TAME)
8260B		Solid	Xylenes, Total

Chain of Custody Record

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch Tel/Fax: 949-681-4287		Site Contact: Danielle Rogers		Date: 01/15/19		COC No: 1 of 5 COCs	
Leighton and Associates Inc. 17781 Cowan		Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab Contact: Danielle Rogers Tel/Fax: 949-681-4287		Carrier:		Sampler:	
Irvine Ca 92614 (949) 814-9948 Phone FAX		Sample Identification		Perform MS / MSD (Y / N)		Filtered Sample (Y / N)		For Lab Use Only: Walk-in Client: Lab Sampling:	
Project Name: RPP Anaheim Site: P O # 11862 002		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Job / SDG No:	
		Sample Date		Sample Time		Matrix		Sample Specific Notes:	
SB1 - 0.5		1/15/19	0745	G	S				
SB1 - 2.5			0747						
SB1 - 5			0749						
SB1 - 10			0754						
SB1 - 15			0757						
SB2 - 0.5			0825						
SB2 - 2.5			0827						
SB2 - 5			0830						
SB2 - 10			0833						
SB2 - 15			0835						
SB3 - 0.5			1115						
SB3 - 2.5			1113						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No:		Cooler Temp. (°C): Obs'd: 3.2		Corr'd: 3.2		Therm ID No: 1R94	
Relinquished by: <i>Sabrina Gonzalez</i>		Company: Leighton		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by: <i>[Signature]</i>		Company: TARR		Date/Time: 1/15/19 1424	

Client Contact		Project Manager: Brynn McCulloch Tel/Fax: 949-681-4287		Site Contact: Lab Contact: Danielle Rogers		Date: 01/15/19		COC No: 2 of 5 COCs																	
Leighton and Associates Inc. 17781 Cowan Irvine Ca 92614 (949) 614-9948 Phone FAX		Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		# of Cont.		Matrix		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		TPH g/d (lb/100)		VOCs (lb/1000)		TSS Metals (lb/1000)		HOLD	
SB3-S		11/15/19		1110		G		S		1		S		N		N		X		X		X		X	
SB3-10		1116		1116		G		S		1		S		N		N		X		X		X		X	
SB3-15		1118		1118		G		S		1		S		N		N		X		X		X		X	
SB4-0.5		1133		1133		G		S		1		S		N		N		X		X		X		X	
SB4-2.5		1132		1132		G		S		1		S		N		N		X		X		X		X	
SB4-5		1130		1130		G		S		1		S		N		N		X		X		X		X	
SB4-10		1135		1135		G		S		1		S		N		N		X		X		X		X	
SB4-15		1137		1137		G		S		1		S		N		N		X		X		X		X	
SB5-0.5		1055		1055		G		S		1		S		N		N		X		X		X		X	
SB5-2.5		1053		1053		G		S		1		S		N		N		X		X		X		X	
SB5-5		1050		1050		G		S		1		S		N		N		X		X		X		X	
SB5-10		1057		1057		G		S		1		S		N		N		X		X		X		X	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:

Custody Seal No.:
Relinquished by: Sabrina Gonzalez
Relinquished by: Deighton
Relinquished by: Deighton

Company: Deighton
Company: Deighton
Company: Deighton

Date/Time: 1/15/19 1424
Date/Time: 1/15/19 1424
Date/Time: 1/15/19 1424

Therm ID No.: 1291

Corr'd: 3.0

Cooler Temp (°C): 3.2

Received by: Deighton

Received by: Deighton

Received in Laboratory by: Deighton

Company: Deighton

Company: Deighton

Company: Deighton

Date/Time: 1/15/19 1424

Date/Time: 1/15/19 1424

Date/Time: 1/15/19 1424

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch Tel/Fax: 949-681-4287		Site Contact: Lab Contact: Danielle Rogers		Date: 01/15/19		COC No: 3 of 5 COCs	
Leighton and Associates Inc. 17781 Cowan Irvine Ca 92614 (949) 614-9948		Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
Project Name: RPP Anaheim Site: P O # 11862 002		Sample Date		Sample Time		Sample		Sample Specific Notes:	
SB5-15		1/15/19		1059		G		S 1	
SB6-0.5		1/15/19		0807		G		S 1	
SB6-2.5		1/15/19		0810		G		S 1	
SB6-5		1/15/19		0815		G		S 1	
SB6-10		1/15/19		0840		G		S 1	
SB6-15		1/15/19		0845		G		S 1	
SB7-0.5		1/15/19		1037		G		S 1	
SB7-2.5		1/15/19		1035		G		S 1	
SB7-5		1/15/19		1038		G		S 1	
SB7-10		1/15/19		1039		G		S 1	
SB7-15		1/15/19		1041		G		S 1	
SB8-0.5		1/15/19		0905		G		S 1	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: 3.2		Therm ID No.:		1294	
Relinquished by: Sabrina Gonzalez		Company: Leighton		Received by:		Company:		Date/Time: 1/15/19 1424	
Relinquished by:		Company:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by: [Signature]		Company: TARRV		Date/Time: 1/15/19 1424	

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch Tel/Fax: 949-681-4287		Site Contact: Lab Contact: Danielle Rogers		Date: 01/15/19		COC No: 4 of 5 COCs	
Leighton and Associates Inc. 17781 Cowan Irvine Ca 92614 (949) 614-9948		Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
Project Name: RPP Anaheim Site: P O # 11862.002		Sample Date		Sample Time		Perform MS / MSD (Y / N)		Sample Specific Notes:	
SB0 - 2.5		V1514		0903		X		TPH 4.90 (8015) VOCs (82608) T22 Metals (61081700)	
SB0 - 5				0900		X		H010	
SB0 - 10				0907		X			
SB0 - 15				0910		X			
SB0 - 20				0915		X			
SB0 - 25				0917		X			
SB9 - 0.5				0935		X			
SB9 - 2.5				0933		X			
SB9 - 5				0930		X			
SB9 - 10				0937		X			
SB9 - 15				0939		X			
SB9 - 20				0941		X			

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:

Custody Seal No.:
Relinquished by: Sabana Gonzalez
Relinquished by:
Relinquished by:

Cooler Temp. (°C): Obs'd: 30 Cor'd: 32 Therm ID No: 1294
Received by: Company:
Received by: Company:
Received in Laboratory by: Company: 1/15/19 1424

Login Sample Receipt Checklist

Client: Leighton and Associates Inc

Job Number: 440-230161-2

Login Number: 230161

List Source: TestAmerica Irvine

List Number: 1

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

31 January 2019

Brynn McCulloch
Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

H&P Project: LA012519-ML
Client Project: 11862.002 / 1122 North Anaheim Blvd.

Dear Brynn McCulloch:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 25-Jan-19 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

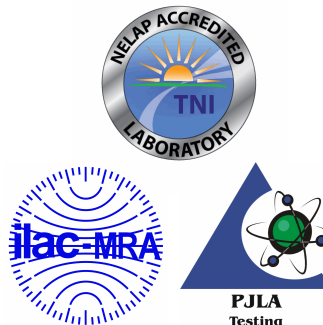
We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,



Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC). H&P is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.



Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-5	E901076-01	Vapor	25-Jan-19	25-Jan-19
SB1-15	E901076-02	Vapor	25-Jan-19	25-Jan-19
SB6-5	E901076-03	Vapor	25-Jan-19	25-Jan-19
SB6-5 Rep	E901076-04	Vapor	25-Jan-19	25-Jan-19
SB4-15	E901077-01	Vapor	25-Jan-19	25-Jan-19
SB4-5	E901077-02	Vapor	25-Jan-19	25-Jan-19
SB9-15	E901077-03	Vapor	25-Jan-19	25-Jan-19
SB9-5	E901077-04	Vapor	25-Jan-19	25-Jan-19
SB5-15	E901077-05	Vapor	25-Jan-19	25-Jan-19
SB5-5	E901077-06	Vapor	25-Jan-19	25-Jan-19
SB3-15	E901077-07	Vapor	25-Jan-19	25-Jan-19
SB3-5	E901077-08	Vapor	25-Jan-19	25-Jan-19
SB2-15	E901077-09	Vapor	25-Jan-19	25-Jan-19
SB2-5	E901077-10	Vapor	25-Jan-19	25-Jan-19
SB6-15	E901077-11	Vapor	25-Jan-19	25-Jan-19
SB6-15 rep	E901077-12	Vapor	25-Jan-19	25-Jan-19

Batch EA92502

The percent recovery for Chloroethane fell below the method criteria in the continuing calibration verification (CCV). Any result for this analyte may be biased low.

Batch EA92504

The percent recovery for Bromomethane fell below the method criteria in the CCV. Any result for this analyte may be biased low.

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

DETECTIONS SUMMARY

Sample ID: **SB1-5**

Laboratory ID: **E901076-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SB1-15**

Laboratory ID: **E901076-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SB6-5**

Laboratory ID: **E901076-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.02	0.02	ug/l	H&P 8260SV	
Tetrachloroethene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SB6-5 Rep**

Laboratory ID: **E901076-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SB4-15**

Laboratory ID: **E901077-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.03	0.02	ug/l	H&P 8260SV	

Sample ID: **SB4-5**

Laboratory ID: **E901077-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.03	0.02	ug/l	H&P 8260SV	

Sample ID: **SB9-15**

Laboratory ID: **E901077-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.21	0.02	ug/l	H&P 8260SV	

Sample ID: **SB9-5**

Laboratory ID: **E901077-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.13	0.02	ug/l	H&P 8260SV	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Sample ID: **SB9-5**

Laboratory ID: **E901077-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
n-Propylbenzene	0.13	0.10	ug/l	H&P 8260SV	
sec-Butylbenzene	0.12	0.10	ug/l	H&P 8260SV	
n-Butylbenzene	0.26	0.10	ug/l	H&P 8260SV	

Sample ID: **SB5-15**

Laboratory ID: **E901077-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.12	0.02	ug/l	H&P 8260SV	

Sample ID: **SB5-5**

Laboratory ID: **E901077-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.08	0.02	ug/l	H&P 8260SV	

Sample ID: **SB3-15**

Laboratory ID: **E901077-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SB3-5**

Laboratory ID: **E901077-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SB2-15**

Laboratory ID: **E901077-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SB2-5**

Laboratory ID: **E901077-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SB6-15**

Laboratory ID: **E901077-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.03	0.02	ug/l	H&P 8260SV	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Sample ID: **SB6-15 rep**

Laboratory ID: **E901077-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	0.04	0.02	ug/l	H&P 8260SV	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (E901076-01) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.04	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (E901076-01) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

97.1 %
96.1 %
104 %
106 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB1-15 (E901076-02) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.04	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB1-15 (E901076-02) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

86.5 %
90.1 %
100 %
110 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-5 (E901076-03) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.02	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.04	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-5 (E901076-03) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

88.8 %
98.4 %
99.5 %
112 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-5 Rep (E901076-04) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.04	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-5 Rep (E901076-04) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92504	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

90.8 %
102 %
102 %
109 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB4-15 (E901077-01) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.03	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB4-15 (E901077-01) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 %
99.6 %
98.8 %
98.4 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB4-5 (E901077-02) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.03	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB4-5 (E901077-02) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 %
108 %
99.8 %
98.8 %

75-125
75-125
75-125
75-125

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB9-15 (E901077-03) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.21	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB9-15 (E901077-03) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

102 %
107 %
99.1 %
97.3 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB9-5 (E901077-04) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.13	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB9-5 (E901077-04) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	0.13	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	0.12	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	0.26	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

101 % 75-125 " " " "
102 % 75-125 " " " "
104 % 75-125 " " " "
92.1 % 75-125 " " " "

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB5-15 (E901077-05) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.12	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB5-15 (E901077-05) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

99.3 % 75-125 " " " "
99.1 % 75-125 " " " "
98.9 % 75-125 " " " "
98.7 % 75-125 " " " "

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB5-5 (E901077-06) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.08	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB5-5 (E901077-06) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

101 %
105 %
98.6 %
96.4 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB3-15 (E901077-07) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB3-15 (E901077-07) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

98.3 % 75-125 " " " "
99.6 % 75-125 " " " "
98.6 % 75-125 " " " "
96.2 % 75-125 " " " "

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB3-5 (E901077-08) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB3-5 (E901077-08) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

100 %
103 %
99.0 %
96.4 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB2-15 (E901077-09) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB2-15 (E901077-09) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

102 %
107 %
99.1 %
100 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB2-5 (E901077-10) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB2-5 (E901077-10) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

100 %
107 %
99.6 %
100 %

75-125
75-125
75-125
75-125

"
"
"
"

"
"
"
"

"
"
"
"

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-15 (E901077-11) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.03	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-15 (E901077-11) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 %
102 %
98.0 %
97.8 %

75-125
75-125
75-125
75-125

"
"
"
"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-15 rep (E901077-12) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.04	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SB6-15 rep (E901077-12) Vapor Sampled: 25-Jan-19 Received: 25-Jan-19									
o-Xylene	ND	0.10	ug/l	0.01	EA92502	25-Jan-19	25-Jan-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

99.3 % 75-125 " " " "
109 % 75-125 " " " "
99.4 % 75-125 " " " "
95.8 % 75-125 " " " "

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA92502 - EPA 5030

Blank (EA92502-BLK1)

Prepared & Analyzed: 25-Jan-19

1,1-Difluoroethane (LCC)	ND	0.10	ug/l
Dichlorodifluoromethane (F12)	ND	0.10	"
Chloromethane	ND	0.10	"
Vinyl chloride	ND	0.01	"
Bromomethane	ND	0.10	"
Chloroethane	ND	0.10	"
Trichlorofluoromethane (F11)	ND	0.10	"
1,1-Dichloroethene	ND	0.10	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"
Methylene chloride (Dichloromethane)	ND	0.10	"
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"
trans-1,2-Dichloroethene	ND	0.10	"
1,1-Dichloroethane	ND	0.10	"
2,2-Dichloropropane	ND	0.10	"
cis-1,2-Dichloroethene	ND	0.10	"
Chloroform	ND	0.02	"
Bromochloromethane	ND	0.10	"
1,1,1-Trichloroethane	ND	0.10	"
1,1-Dichloropropene	ND	0.10	"
Carbon tetrachloride	ND	0.02	"
1,2-Dichloroethane (EDC)	ND	0.02	"
Benzene	ND	0.02	"
Trichloroethene	ND	0.02	"
1,2-Dichloropropane	ND	0.10	"
Bromodichloromethane	ND	0.10	"
Dibromomethane	ND	0.10	"
cis-1,3-Dichloropropene	ND	0.10	"
Toluene	ND	0.20	"
trans-1,3-Dichloropropene	ND	0.10	"
1,1,2-Trichloroethane	ND	0.10	"
1,2-Dibromoethane (EDB)	ND	0.10	"
1,3-Dichloropropane	ND	0.10	"
Tetrachloroethene	ND	0.02	"
Dibromochloromethane	ND	0.10	"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA92502 - EPA 5030

Blank (EA92502-BLK1)

Prepared & Analyzed: 25-Jan-19

Chlorobenzene	ND	0.02	ug/l
Ethylbenzene	ND	0.10	"
1,1,1,2-Tetrachloroethane	ND	0.10	"
m,p-Xylene	ND	0.10	"
o-Xylene	ND	0.10	"
Styrene	ND	0.10	"
Bromoform	ND	0.10	"
Isopropylbenzene (Cumene)	ND	0.10	"
1,1,2,2-Tetrachloroethane	ND	0.10	"
1,2,3-Trichloropropane	ND	0.10	"
n-Propylbenzene	ND	0.10	"
Bromobenzene	ND	0.10	"
1,3,5-Trimethylbenzene	ND	0.10	"
2-Chlorotoluene	ND	0.10	"
4-Chlorotoluene	ND	0.10	"
tert-Butylbenzene	ND	0.10	"
1,2,4-Trimethylbenzene	ND	0.10	"
sec-Butylbenzene	ND	0.10	"
p-Isopropyltoluene	ND	0.10	"
1,3-Dichlorobenzene	ND	0.10	"
1,4-Dichlorobenzene	ND	0.10	"
n-Butylbenzene	ND	0.10	"
1,2-Dichlorobenzene	ND	0.10	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2,4-Trichlorobenzene	ND	0.10	"
Hexachlorobutadiene	ND	0.10	"
Naphthalene	ND	0.02	"
1,2,3-Trichlorobenzene	ND	0.10	"

Surrogate: Dibromofluoromethane	0.501	"	0.500	100	75-125
Surrogate: 1,2-Dichloroethane-d4	0.518	"	0.500	104	75-125
Surrogate: Toluene-d8	0.496	"	0.500	99.2	75-125
Surrogate: 4-Bromofluorobenzene	0.490	"	0.500	98.0	75-125

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA92502 - EPA 5030

LCS (EA92502-BS1)

Prepared & Analyzed: 25-Jan-19

Dichlorodifluoromethane (F12)	5.9	0.50	ug/l	5.00		118	70-130			
Vinyl chloride	5.5	0.05	"	5.00		110	70-130			
Chloroethane	5.9	0.50	"	5.00		118	70-130			
Trichlorofluoromethane (F11)	6.3	0.50	"	5.00		126	70-130			
1,1-Dichloroethene	5.4	0.50	"	5.00		109	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.7	0.50	"	5.00		114	70-130			
Methylene chloride (Dichloromethane)	4.8	0.50	"	5.00		95.6	70-130			
trans-1,2-Dichloroethene	5.4	0.50	"	5.00		109	70-130			
1,1-Dichloroethane	5.4	0.50	"	5.00		108	70-130			
cis-1,2-Dichloroethene	5.9	0.50	"	5.00		117	70-130			
Chloroform	6.0	0.10	"	5.00		120	70-130			
1,1,1-Trichloroethane	6.4	0.50	"	5.00		128	70-130			
Carbon tetrachloride	6.8	0.10	"	5.00		135	70-130			QL-1H
1,2-Dichloroethane (EDC)	6.5	0.10	"	5.00		130	70-130			QL-1H
Benzene	5.3	0.10	"	5.00		107	70-130			
Trichloroethene	6.3	0.10	"	5.00		126	70-130			
Toluene	5.2	1.0	"	5.00		103	70-130			
1,1,2-Trichloroethane	5.9	0.50	"	5.00		119	70-130			
Tetrachloroethene	6.1	0.10	"	5.00		121	70-130			
Ethylbenzene	5.4	0.50	"	5.00		109	70-130			
1,1,1,2-Tetrachloroethane	6.1	0.50	"	5.00		122	70-130			
m,p-Xylene	11	0.50	"	10.0		108	70-130			
o-Xylene	5.3	0.50	"	5.00		106	70-130			
1,1,2,2-Tetrachloroethane	5.1	0.50	"	5.00		101	70-130			
Surrogate: Dibromofluoromethane	2.56		"	2.50		102	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.65		"	2.50		106	75-125			
Surrogate: Toluene-d8	2.53		"	2.50		101	75-125			
Surrogate: 4-Bromofluorobenzene	2.55		"	2.50		102	75-125			

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA92504 - EPA 5030

Blank (EA92504-BLK1)

Prepared & Analyzed: 25-Jan-19

1,1-Difluoroethane (LCC)	ND	0.10	ug/l
Dichlorodifluoromethane (F12)	ND	0.10	"
Chloromethane	ND	0.10	"
Vinyl chloride	ND	0.01	"
Bromomethane	ND	0.10	"
Chloroethane	ND	0.10	"
Trichlorofluoromethane (F11)	ND	0.10	"
1,1-Dichloroethene	ND	0.10	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"
Methylene chloride (Dichloromethane)	ND	0.10	"
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"
trans-1,2-Dichloroethene	ND	0.10	"
1,1-Dichloroethane	ND	0.10	"
2,2-Dichloropropane	ND	0.10	"
cis-1,2-Dichloroethene	ND	0.10	"
Chloroform	ND	0.02	"
Bromochloromethane	ND	0.10	"
1,1,1-Trichloroethane	ND	0.10	"
1,1-Dichloropropene	ND	0.10	"
Carbon tetrachloride	ND	0.02	"
1,2-Dichloroethane (EDC)	ND	0.02	"
Benzene	ND	0.02	"
Trichloroethene	ND	0.02	"
1,2-Dichloropropane	ND	0.10	"
Bromodichloromethane	ND	0.10	"
Dibromomethane	ND	0.10	"
cis-1,3-Dichloropropene	ND	0.10	"
Toluene	ND	0.20	"
trans-1,3-Dichloropropene	ND	0.10	"
1,1,2-Trichloroethane	ND	0.10	"
1,2-Dibromoethane (EDB)	ND	0.10	"
1,3-Dichloropropane	ND	0.10	"
Tetrachloroethene	ND	0.02	"
Dibromochloromethane	ND	0.10	"

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA92504 - EPA 5030

Blank (EA92504-BLK1)

Prepared & Analyzed: 25-Jan-19

Chlorobenzene	ND	0.02	ug/l
Ethylbenzene	ND	0.10	"
1,1,1,2-Tetrachloroethane	ND	0.10	"
m,p-Xylene	ND	0.10	"
o-Xylene	ND	0.10	"
Styrene	ND	0.10	"
Bromoform	ND	0.10	"
Isopropylbenzene (Cumene)	ND	0.10	"
1,1,2,2-Tetrachloroethane	ND	0.10	"
1,2,3-Trichloropropane	ND	0.10	"
n-Propylbenzene	ND	0.10	"
Bromobenzene	ND	0.10	"
1,3,5-Trimethylbenzene	ND	0.10	"
2-Chlorotoluene	ND	0.10	"
4-Chlorotoluene	ND	0.10	"
tert-Butylbenzene	ND	0.10	"
1,2,4-Trimethylbenzene	ND	0.10	"
sec-Butylbenzene	ND	0.10	"
p-Isopropyltoluene	ND	0.10	"
1,3-Dichlorobenzene	ND	0.10	"
1,4-Dichlorobenzene	ND	0.10	"
n-Butylbenzene	ND	0.10	"
1,2-Dichlorobenzene	ND	0.10	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2,4-Trichlorobenzene	ND	0.10	"
Hexachlorobutadiene	ND	0.10	"
Naphthalene	ND	0.02	"
1,2,3-Trichlorobenzene	ND	0.10	"

Surrogate: Dibromofluoromethane	0.454	"	0.500	90.8	75-125
Surrogate: 1,2-Dichloroethane-d4	0.460	"	0.500	92.0	75-125
Surrogate: Toluene-d8	0.498	"	0.500	99.6	75-125
Surrogate: 4-Bromofluorobenzene	0.519	"	0.500	104	75-125

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA92504 - EPA 5030

LCS (EA92504-BS1)

Prepared & Analyzed: 25-Jan-19

Dichlorodifluoromethane (F12)	5.2	0.50	ug/l	5.00		104	70-130			
Vinyl chloride	4.9	0.05	"	5.00		98.0	70-130			
Chloroethane	5.2	0.50	"	5.00		105	70-130			
Trichlorofluoromethane (F11)	5.1	0.50	"	5.00		101	70-130			
1,1-Dichloroethene	4.8	0.50	"	5.00		96.5	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	4.7	0.50	"	5.00		94.3	70-130			
Methylene chloride (Dichloromethane)	4.8	0.50	"	5.00		95.5	70-130			
trans-1,2-Dichloroethene	4.8	0.50	"	5.00		95.9	70-130			
1,1-Dichloroethane	4.9	0.50	"	5.00		98.8	70-130			
cis-1,2-Dichloroethene	5.1	0.50	"	5.00		101	70-130			
Chloroform	5.0	0.10	"	5.00		100	70-130			
1,1,1-Trichloroethane	5.1	0.50	"	5.00		102	70-130			
Carbon tetrachloride	5.6	0.10	"	5.00		112	70-130			
1,2-Dichloroethane (EDC)	5.2	0.10	"	5.00		103	70-130			
Benzene	5.2	0.10	"	5.00		103	70-130			
Trichloroethene	5.5	0.10	"	5.00		110	70-130			
Toluene	5.1	1.0	"	5.00		102	70-130			
1,1,2-Trichloroethane	5.4	0.50	"	5.00		107	70-130			
Tetrachloroethene	5.2	0.10	"	5.00		104	70-130			
Ethylbenzene	5.3	0.50	"	5.00		105	70-130			
1,1,1,2-Tetrachloroethane	6.3	0.50	"	5.00		126	70-130			
m,p-Xylene	11	0.50	"	10.0		108	70-130			
o-Xylene	5.2	0.50	"	5.00		104	70-130			
1,1,2,2-Tetrachloroethane	5.0	0.50	"	5.00		100	70-130			

Surrogate: Dibromofluoromethane	2.50		"	2.50		99.9	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.57		"	2.50		103	75-125			
Surrogate: Toluene-d8	2.64		"	2.50		106	75-125			
Surrogate: 4-Bromofluorobenzene	2.61		"	2.50		104	75-125			

Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

Project: LA012519-ML
Project Number: 11862.002 / 1122 North Anaheim Blvd.
Project Manager: Brynn McCulloch

Reported:
31-Jan-19 14:50

Notes and Definitions

QL-1H The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Lab Client and Project Information		
Lab Client/Consultant: <u>Leighton Group</u>	Project Name / #: <u>11862.002</u>	
Lab Client Project Manager: <u>Brynn McCulloch</u>	Project Location: <u>1122 N Anaheim Blvd</u>	
Lab Client Address: <u>17781 Cowan</u>	Report E-Mail(s): <u>bmculloch@leightongroup.com</u>	
Lab Client City, State, Zip: <u>Irvine, CA 92614</u>		
Phone Number: <u>(949) 394-2306</u>		
Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV ☐ Excel EDD ☐ Other EDD: _____ ☐ CA Geotracker Global ID: _____	☐ 5-7 day Std ☐ 24-Hr Rush ☐ 3-day Rush ☒ Mobile Lab ☐ 48-Hr Rush ☐ Other: _____	Sampler(s): <u>Brynn Thompson</u> Signature: <u>[Signature]</u> Date: <u>1/25/19</u>

Sample Receipt (Lab Use Only)	
Date Rec'd: 1/25/19	Control #: K6075.00
H&P Project # LA 012519-ML	
Lab Work Order # E901077	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Additional Instructions to Laboratory:										VOCs Standard Full List		VOCs Short List / Project List		Oxygenates		Naphthalene		TPHv as Gas		Aromatic/Aliphatic Fractions		Leak Check Compound		Methane by EPA 8015m		Fixed Gases by ASTM D1945	
* Preferred VOC units (please choose one):										☒ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15		☐ 8260SV ☐ TO-15	
☒ µg/L ☐ µg/m ³ ☐ ppbv ☐ ppmv																											
SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac																				
SB 4-15		1/25/19	10:36	SV	Syringe	172/245		X																			
SB 4-5		1/25/19	10:59	SV	Syringe	292/283		X																			
SB 9-15		1/25/19	11:28	SV	Syringe	87/284		X																			
SB 9-5		1/25/19	11:45	SV	Syringe	172/245		X																			
SB 5-15		1/25/19	12:21	SV	Syringe	292/283		X																			
SB 5-5		1/25/19	12:39	SV	Syringe	284/87		X																			
SB 3-15		1/25/19	13:07	SV	Syringe	172/245		X																			
SB 3-5		1/25/19	13:25	SV	Syringe	283/292		X																			
SB 2-15		1/25/19	13:50	SV	Syringe	284/87		X																			
SB 2-5		1/25/19	14:11	SV	Syringe			X																			

Approved/Relinquished by:

Sabrina Gonzalez

Company:

Wegton

Date:

1/25/19

Time:

16:00

Received by:

Bryce Thompson

Company:

H&P

Date:

1/25/19

Time:

16:00

Approved/Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: LA012519-ML Date: 1/25/19
Site Address: 1122 N Anaheim Blvd Page: 1 of 1
Consultant: Leighton H&P Rep(s): Brynn Thompson
Consultant Rep(s): Brynn McCulloh Nicole Svoboda

Reviewed: DB
Scanned: T Torres

Equipment Info Inline Gauge ID#: _____ Pump ID#: <u>040</u>	Purge Volume Information		Leak Check Compound A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.	☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:	Resample Key RS = Resample RD = for Dilution RL = for LCC Fail
	PV Amount: <u>3PV</u>	PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%			

Sample Information				Probe Specs								Purge & Collection Information					
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☒ H ₂ O
1 SB4-15	172/245	100cc	8:50	15	17	1/4	12	2	12	2	✓	✓	1915	200	9:34	200	0"
2 SB4-5	292/283	100	9:04	5	6	1/4	12	2	12	2	✓	✓	1755	200	8:47	200	0"
3 SB4-15 R.S.	172/245	100	10:38	15	17	1/4	12	2	12	2	✓	✓	2168 28	200	NA	200	0"
4 SB4-5 R.S.	292/283	100	10:50	5	6	1/4	12	2	12	2	✓	✓	1909	200	NA	200	0"
5 SB9-15	87/284	100	11:28	15	17	1/4	12	2	12	2	✓	✓	1915	200	9:34 NA	200	0"
6 SB9-5	172/245	100	11:45	5	6	1/4	12	2	12	2	✓	✓	1755	200	8:47	200	0"
7 SB5-15	292/283	100	12:21	15	17	1/4	12	2	12	2	✓	✓	1915	200	09:34	200	0
8 SB5-5	87/284	100	12:39	5	6	1/4	12	2	12	2	✓	✓	1755	200	08:47	200	0
9 SB3-15	245/172	100	13:07	15	17	1/4	12	2	12	2	✓	✓	1915	200	09:34	200	0
10 SB3-5	292/283	100	13:25	5	6	1/4	12	2	12	2	✓	✓	1755	200	08:47	200	0
11 SB2-15	87/284	100	13:50	15	17	1/4	12	2	12	2	✓	✓	1915	200	09:34	200	0
12 SB2-5	245/172	100	14:11	5	6	1/4	12	2	12	2	✓	✓	1755	200	08:47	200	0

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: LA012519-MC Date: 1/25/19
Site Address: 1122 N ANATOLIA BLVD Page: 2 of 2
Consultant: LEIGHTON H&P Rep(s): B. THOMPSON, N. SVOBODA
Consultant Rep(s): BRYAN MCCOY J. VANDERWAL

Reviewed: DB
Scanned: TTorres

Equipment Info Inline Gauge ID#: _____ Pump ID#: <u>040</u>	Purge Volume Information		Leak Check Compound ☒ 1,1-DFA A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted. ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:	Resample Key RS = Resample RD = for Dilution RL = for LCC Fail
	PV Amount: <u>3PV</u>	PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%		

Sample Information				Probe Specs								Purge & Collection Information						
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☒ H₂O	
1	SB6-15	244/283	100	1436	15	17	1/4	12	2	12	2	—	—	1915	09:34	200	200	Ø
2	SB6-5	244/242	100	1503	5	6	1/4	12	2	12	2	✓	✓	1755	08:47	200	200	Ø
3	SB6-15 REP	244/87	100	1503	15	17	1/4	12	2	12	2	✓	✓	2015	200	—	200	Ø
4	SB6-5 REP	244/241	100	1515	5	6	1/4	12	2	12	2	✓	—	1855	200	—	200	Ø
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: LA012519-ML Date: 01/25/19
Site Address: 1122 North Anaheim Blvd. Page: 1 of 1
Consultant: Leighton H&P Rep(s): N. Swaboda, B. Thompson
Consultant Rep(s): Brynn McCulloch

Reviewed: MB
Scanned: T Torres

Equipment Info Inline Gauge ID#: <u>T06</u> Pump ID#: <u>006</u>	Purge Volume Information PV Amount: <u>3PV</u> PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%		Leak Check Compound ☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:
	A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted. Resample Key RS = Resample RD = for Dilution RL = for LCC Fail		

Sample Information				Probe Specs								Purge & Collection Information						
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☒ H ₂ O	
1	SB1-5	175/225 100	0818	5	6	1/4	12	2	12	2	✓	✓	1755	1200	8:47	1200	Ø	
2	SB1-15	240/242 100	0855	15	17	1/4	12	12 ¹⁵	12	2	✓	✓	1915	1200	9:34	1200	Ø	
3	SB1-15 RS	267/280 100	1424	"	"	"	"	"	"	"	✓	✓	2097	1200	/	1200	Ø +tg	
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

③ 1915 + 100 + 82 = 2097 : Lab down for repairs; RS needed

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-234374-1

TestAmerica SDG: 1122 Anaheim Blvd., Anaheim CA

Client Project/Site: RPP Anaheim

For:

Leighton and Associates Inc

17781 Cowan

Suite 200

Irvine, California 92614

Attn: Brynn McCulloch



Authorized for release by:

3/5/2019 11:50:49 AM

Danielle Roberts, Senior Project Manager

(949)261-1022

danielle.roberts@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	9
Surrogate Summary	15
Method Summary	17
Lab Chronicle	18
QC Sample Results	23
QC Association Summary	27
Definitions/Glossary	29
Certification Summary	30
Chain of Custody	31
Receipt Checklists	36

Sample Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-234374-1	SB6-N5-2.5	Solid	02/21/19 09:23	02/21/19 13:15
440-234374-2	SB6-N5-5	Solid	02/21/19 09:25	02/21/19 13:15
440-234374-3	SB6-N5-7.5	Solid	02/21/19 09:27	02/21/19 13:15
440-234374-5	SB6-NE10-2.5	Solid	02/21/19 09:35	02/21/19 13:15
440-234374-9	SB6-E5-2.5	Solid	02/21/19 09:03	02/21/19 13:15
440-234374-10	SB6-E5-5	Solid	02/21/19 09:05	02/21/19 13:15
440-234374-11	SB6-E5-7.5	Solid	02/21/19 09:07	02/21/19 13:15
440-234374-17	SB6-SE10-2.5	Solid	02/21/19 08:50	02/21/19 13:15
440-234374-21	SB6-S5-2.5	Solid	02/21/19 08:35	02/21/19 13:15
440-234374-22	SB6-S5-5	Solid	02/21/19 08:37	02/21/19 13:15
440-234374-23	SB6-S5-7.5	Solid	02/21/19 08:39	02/21/19 13:15
440-234374-29	SB6-W5-2.5	Solid	02/21/19 08:23	02/21/19 13:15
440-234374-30	SB6-W5-5	Solid	02/21/19 08:25	02/21/19 13:15
440-234374-31	SB6-W5-7.5	Solid	02/21/19 08:27	02/21/19 13:15
440-234374-37	SB9-E5-2.5	Solid	02/21/19 10:14	02/21/19 13:15
440-234374-38	SB9-E5-5	Solid	02/21/19 10:16	02/21/19 13:15
440-234374-39	SB9-E5-7.5	Solid	02/21/19 10:18	02/21/19 13:15
440-234374-45	SB9-W5-2.5	Solid	02/21/19 10:38	02/21/19 13:15
440-234374-46	SB9-W5-5	Solid	02/21/19 10:39	02/21/19 13:15
440-234374-47	SB9-W5-7.5	Solid	02/21/19 10:41	02/21/19 13:15
440-234374-49	SB9-S5-2.5	Solid	02/21/19 10:30	02/21/19 13:15
440-234374-50	SB9-S5-5	Solid	02/21/19 10:31	02/21/19 13:15
440-234374-51	SB9-S5-7.5	Solid	02/21/19 10:33	02/21/19 13:15
440-234374-53	SB9-N5-2.5	Solid	02/21/19 10:22	02/21/19 13:15
440-234374-54	SB9-N5-5	Solid	02/21/19 10:24	02/21/19 13:15
440-234374-55	SB9-N5-7.5	Solid	02/21/19 10:25	02/21/19 13:15

Case Narrative

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Job ID: 440-234374-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-234374-1

Comments

No additional comments.

Receipt

The samples were received on 2/21/2019 1:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The 8015-DRO method blank for preparation batch 440-530575 and analytical batch 440-530656 contained C23-C40 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3546: Due to the matrix, the following sample could not be concentrated to the final method required volume: SB6-E5-2.5 (440-234374-9). The reporting limits (RLs) are elevated proportionately. 440-530575 3546 8015_DRO

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-234374-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-234374-2

Comments

No additional comments.

Receipt

The samples were received on 2/21/2019 1:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC Semi VOA

Method(s) 8015B: Due to the high concentration of hydrocarbons, the 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 440-531838 and analytical batch 440-531748 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: The 8015-DRO method blank for preparation batch 440-531838 and analytical batch 440-531748 contained C23-C40 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Job ID: 440-234374-2 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-N5-2.5

Lab Sample ID: 440-234374-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	5.0	B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-N5-5

Lab Sample ID: 440-234374-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.5	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-N5-7.5

Lab Sample ID: 440-234374-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	2.5	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-NE10-2.5

Lab Sample ID: 440-234374-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	4.0	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-E5-2.5

Lab Sample ID: 440-234374-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	320		10	5.0	mg/Kg	1		8015B	Total/NA
C23-C40	580	B	10	5.0	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-E5-5

Lab Sample ID: 440-234374-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	2.9	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
C23-C40	4.6	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-E5-7.5

Lab Sample ID: 440-234374-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	2.8	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-SE10-2.5

Lab Sample ID: 440-234374-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.1	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-S5-2.5

Lab Sample ID: 440-234374-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	3.0	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: SB6-S5-5

Lab Sample ID: 440-234374-22

No Detections.

Client Sample ID: SB6-S5-7.5

Lab Sample ID: 440-234374-23

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-S5-7.5 (Continued)

Lab Sample ID: 440-234374-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
C23-C40	2.7	J B	5.0	2.5	mg/Kg	1			8015B	Total/NA

Client Sample ID: SB6-W5-2.5

Lab Sample ID: 440-234374-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
C23-C40	3.0	J B	5.0	2.5	mg/Kg	1			8015B	Total/NA

Client Sample ID: SB6-W5-5

Lab Sample ID: 440-234374-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
C23-C40	4.7	J B	5.0	2.5	mg/Kg	1			8015B	Total/NA

Client Sample ID: SB6-W5-7.5

Lab Sample ID: 440-234374-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
C23-C40	5.4	B	5.0	2.5	mg/Kg	1			8015B	Total/NA

Client Sample ID: SB9-E5-2.5

Lab Sample ID: 440-234374-37

No Detections.

Client Sample ID: SB9-E5-5

Lab Sample ID: 440-234374-38

No Detections.

Client Sample ID: SB9-E5-7.5

Lab Sample ID: 440-234374-39

No Detections.

Client Sample ID: SB9-W5-2.5

Lab Sample ID: 440-234374-45

No Detections.

Client Sample ID: SB9-W5-5

Lab Sample ID: 440-234374-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
GRO (C4-C12)	410		400	150	ug/Kg	1			8015B	Total/NA

Client Sample ID: SB9-W5-7.5

Lab Sample ID: 440-234374-47

No Detections.

Client Sample ID: SB9-S5-2.5

Lab Sample ID: 440-234374-49

No Detections.

Client Sample ID: SB9-S5-5

Lab Sample ID: 440-234374-50

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB9-S5-7.5

Lab Sample ID: 440-234374-51

No Detections.

Client Sample ID: SB9-N5-2.5

Lab Sample ID: 440-234374-53

No Detections.

Client Sample ID: SB9-N5-5

Lab Sample ID: 440-234374-54

No Detections.

Client Sample ID: SB9-N5-7.5

Lab Sample ID: 440-234374-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
GRO (C4-C12)	510		400	150	ug/Kg		1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-N5-2.5

Date Collected: 02/21/19 09:23

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-1

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 15:00	1
C23-C40	5.0	B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	80		40 - 140				02/25/19 06:34	02/25/19 15:00	1

Client Sample ID: SB6-N5-5

Date Collected: 02/21/19 09:25

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-2

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 17:46	1
C23-C40	3.5	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	74		40 - 140				02/25/19 06:34	02/25/19 17:46	1

Client Sample ID: SB6-N5-7.5

Date Collected: 02/21/19 09:27

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-3

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 18:06	1
C23-C40	2.5	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	70		40 - 140				02/25/19 06:34	02/25/19 18:06	1

Client Sample ID: SB6-NE10-2.5

Date Collected: 02/21/19 09:35

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-5

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		03/01/19 13:11	03/01/19 22:26	1
C23-C40	4.0	J B	5.0	2.5	mg/Kg		03/01/19 13:11	03/01/19 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	97		40 - 140				03/01/19 13:11	03/01/19 22:26	1

Client Sample ID: SB6-E5-2.5

Date Collected: 02/21/19 09:03

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-9

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	320		10	5.0	mg/Kg		02/25/19 06:34	02/25/19 22:35	1
C23-C40	580	B	10	5.0	mg/Kg		02/25/19 06:34	02/25/19 22:35	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-E5-2.5

Date Collected: 02/21/19 09:03

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	56		40 - 140	02/25/19 06:34	02/25/19 22:35	1

Client Sample ID: SB6-E5-5

Date Collected: 02/21/19 09:05

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-10

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	2.9	J	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 19:29	1
C23-C40	4.6	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 19:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane	68		40 - 140	02/25/19 06:34	02/25/19 19:29	1			

Client Sample ID: SB6-E5-7.5

Date Collected: 02/21/19 09:07

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-11

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 18:27	1
C23-C40	2.8	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 18:27	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane	69		40 - 140	02/25/19 06:34	02/25/19 18:27	1			

Client Sample ID: SB6-SE10-2.5

Date Collected: 02/21/19 08:50

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-17

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		03/01/19 13:11	03/01/19 22:26	1
C23-C40	3.1	J B	5.0	2.5	mg/Kg		03/01/19 13:11	03/01/19 22:26	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane	88		40 - 140	03/01/19 13:11	03/01/19 22:26	1			

Client Sample ID: SB6-S5-2.5

Date Collected: 02/21/19 08:35

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-21

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 20:31	1
C23-C40	3.0	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 20:31	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane	69		40 - 140	02/25/19 06:34	02/25/19 20:31	1			

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-S5-5

Date Collected: 02/21/19 08:37

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-22

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 18:47	1
C23-C40	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	76		40 - 140				02/25/19 06:34	02/25/19 18:47	1

Client Sample ID: SB6-S5-7.5

Date Collected: 02/21/19 08:39

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-23

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 19:50	1
C23-C40	2.7	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	71		40 - 140				02/25/19 06:34	02/25/19 19:50	1

Client Sample ID: SB6-W5-2.5

Date Collected: 02/21/19 08:23

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-29

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 19:08	1
C23-C40	3.0	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	67		40 - 140				02/25/19 06:34	02/25/19 19:08	1

Client Sample ID: SB6-W5-5

Date Collected: 02/21/19 08:25

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-30

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/26/19 02:23	1
C23-C40	4.7	J B	5.0	2.5	mg/Kg		02/25/19 06:34	02/26/19 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	55		40 - 140				02/25/19 06:34	02/26/19 02:23	1

Client Sample ID: SB6-W5-7.5

Date Collected: 02/21/19 08:27

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-31

Matrix: Solid

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/26/19 01:21	1
C23-C40	5.4	B	5.0	2.5	mg/Kg		02/25/19 06:34	02/26/19 01:21	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-W5-7.5

Date Collected: 02/21/19 08:27

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-31

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	64		40 - 140	02/25/19 06:34	02/26/19 01:21	1

Client Sample ID: SB9-E5-2.5

Date Collected: 02/21/19 10:14

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-37

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg	-		02/23/19 13:52	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	83		65 - 140		02/23/19 13:52	1			

Client Sample ID: SB9-E5-5

Date Collected: 02/21/19 10:16

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-38

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 16:09	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	86		65 - 140		02/23/19 16:09	1			

Client Sample ID: SB9-E5-7.5

Date Collected: 02/21/19 10:18

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-39

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 16:37	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	88		65 - 140		02/23/19 16:37	1			

Client Sample ID: SB9-W5-2.5

Date Collected: 02/21/19 10:38

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-45

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 17:05	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	84		65 - 140		02/23/19 17:05	1			

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB9-W5-5

Date Collected: 02/21/19 10:39

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-46

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	410		400	150	ug/Kg	-		02/23/19 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		65 - 140					02/23/19 17:33	1

Client Sample ID: SB9-W5-7.5

Date Collected: 02/21/19 10:41

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-47

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		65 - 140					02/23/19 18:57	1

Client Sample ID: SB9-S5-2.5

Date Collected: 02/21/19 10:30

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-49

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		65 - 140					02/23/19 19:25	1

Client Sample ID: SB9-S5-5

Date Collected: 02/21/19 10:31

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-50

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg	-		02/23/19 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		65 - 140					02/23/19 19:53	1

Client Sample ID: SB9-S5-7.5

Date Collected: 02/21/19 10:33

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-51

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		65 - 140					02/23/19 20:21	1

TestAmerica Irvine

Client Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB9-N5-2.5

Date Collected: 02/21/19 10:22

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-53

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		2000	750	ug/Kg	-		02/23/19 20:49	5.03505
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		65 - 140					02/23/19 20:49	5.03505

Client Sample ID: SB9-N5-5

Date Collected: 02/21/19 10:24

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-54

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg	-		02/23/19 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		65 - 140					02/23/19 21:17	1

Client Sample ID: SB9-N5-7.5

Date Collected: 02/21/19 10:25

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-55

Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	510		400	150	ug/Kg	-		02/25/19 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		65 - 140					02/25/19 13:33	1

TestAmerica Irvine

Surrogate Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (65-140)
440-234374-37	SB9-E5-2.5	83
440-234374-37 MS	SB9-E5-2.5	83
440-234374-37 MSD	SB9-E5-2.5	81
440-234374-38	SB9-E5-5	86
440-234374-39	SB9-E5-7.5	88
440-234374-45	SB9-W5-2.5	84
440-234374-46	SB9-W5-5	91
440-234374-47	SB9-W5-7.5	77
440-234374-49	SB9-S5-2.5	81
440-234374-50	SB9-S5-5	90
440-234374-51	SB9-S5-7.5	82
440-234374-53	SB9-N5-2.5	86
440-234374-54	SB9-N5-5	85
440-234374-55	SB9-N5-7.5	105
440-234374-55 MS	SB9-N5-7.5	102
440-234374-55 MSD	SB9-N5-7.5	104
LCS 440-530443/4	Lab Control Sample	102
LCS 440-530627/3	Lab Control Sample	84
LCSD 440-530443/5	Lab Control Sample Dup	101
LCSD 440-530627/4	Lab Control Sample Dup	102
MB 440-530443/6	Method Blank	93
MB 440-530627/5	Method Blank	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
440-234374-1	SB6-N5-2.5	80
440-234374-1 MS	SB6-N5-2.5	82
440-234374-1 MSD	SB6-N5-2.5	79
440-234374-2	SB6-N5-5	74
440-234374-3	SB6-N5-7.5	70
440-234374-5	SB6-NE10-2.5	97
440-234374-9	SB6-E5-2.5	56
440-234374-10	SB6-E5-5	68
440-234374-11	SB6-E5-7.5	69
440-234374-17	SB6-SE10-2.5	88
440-234374-21	SB6-S5-2.5	69
440-234374-22	SB6-S5-5	76
440-234374-23	SB6-S5-7.5	71
440-234374-29	SB6-W5-2.5	67
440-234374-30	SB6-W5-5	55
440-234374-31	SB6-W5-7.5	64
LCS 440-530575/2-A	Lab Control Sample	85

TestAmerica Irvine

Surrogate Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCN1 (40-140)
LCS 440-531838/2-A	Lab Control Sample	80
MB 440-530575/1-A	Method Blank	84
MB 440-531838/1-A	Method Blank	84

Surrogate Legend

OTCN = n-Octacosane

Method Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics(DRO)/Oil Range Organics (ORO)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-N5-2.5

Date Collected: 02/21/19 09:23

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530656	02/25/19 15:00	LMB	TAL IRV

Client Sample ID: SB6-N5-5

Date Collected: 02/21/19 09:25

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 17:46	LMB	TAL IRV

Client Sample ID: SB6-N5-7.5

Date Collected: 02/21/19 09:27

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 18:06	LMB	TAL IRV

Client Sample ID: SB6-NE10-2.5

Date Collected: 02/21/19 09:35

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	1 mL	531838	03/01/19 13:11	EGC	TAL IRV
Total/NA	Analysis	8015B		1			531742	03/01/19 22:26	LMB	TAL IRV

Client Sample ID: SB6-E5-2.5

Date Collected: 02/21/19 09:03

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530656	02/25/19 22:35	LMB	TAL IRV

Client Sample ID: SB6-E5-5

Date Collected: 02/21/19 09:05

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 19:29	LMB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-E5-7.5

Date Collected: 02/21/19 09:07

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 18:27	LMB	TAL IRV

Client Sample ID: SB6-SE10-2.5

Date Collected: 02/21/19 08:50

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	1 mL	531838	03/01/19 13:11	EGC	TAL IRV
Total/NA	Analysis	8015B		1			531745	03/01/19 22:26	LMB	TAL IRV

Client Sample ID: SB6-S5-2.5

Date Collected: 02/21/19 08:35

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 20:31	LMB	TAL IRV

Client Sample ID: SB6-S5-5

Date Collected: 02/21/19 08:37

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 18:47	LMB	TAL IRV

Client Sample ID: SB6-S5-7.5

Date Collected: 02/21/19 08:39

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 19:50	LMB	TAL IRV

Client Sample ID: SB6-W5-2.5

Date Collected: 02/21/19 08:23

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530655	02/25/19 19:08	LMB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB6-W5-5

Date Collected: 02/21/19 08:25

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530656	02/26/19 02:23	LMB	TAL IRV

Client Sample ID: SB6-W5-7.5

Date Collected: 02/21/19 08:27

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1 mL	530575	02/25/19 06:34	L1A	TAL IRV
Total/NA	Analysis	8015B		1			530656	02/26/19 01:21	LMB	TAL IRV

Client Sample ID: SB9-E5-2.5

Date Collected: 02/21/19 10:14

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.07 g	10 mL	530443	02/23/19 13:52	IM	TAL IRV

Client Sample ID: SB9-E5-5

Date Collected: 02/21/19 10:16

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.01 g	10 mL	530443	02/23/19 16:09	IM	TAL IRV

Client Sample ID: SB9-E5-7.5

Date Collected: 02/21/19 10:18

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.03 g	10 mL	530443	02/23/19 16:37	IM	TAL IRV

Client Sample ID: SB9-W5-2.5

Date Collected: 02/21/19 10:38

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.01 g	10 mL	530443	02/23/19 17:05	IM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB9-W5-5

Date Collected: 02/21/19 10:39

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.02 g	10 mL	530443	02/23/19 17:33	IM	TAL IRV

Client Sample ID: SB9-W5-7.5

Date Collected: 02/21/19 10:41

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.02 g	10 mL	530443	02/23/19 18:57	IM	TAL IRV

Client Sample ID: SB9-S5-2.5

Date Collected: 02/21/19 10:30

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-49

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.03 g	10 mL	530443	02/23/19 19:25	IM	TAL IRV

Client Sample ID: SB9-S5-5

Date Collected: 02/21/19 10:31

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.07 g	10 mL	530443	02/23/19 19:53	IM	TAL IRV

Client Sample ID: SB9-S5-7.5

Date Collected: 02/21/19 10:33

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-51

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.02 g	10 mL	530443	02/23/19 20:21	IM	TAL IRV

Client Sample ID: SB9-N5-2.5

Date Collected: 02/21/19 10:22

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-53

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		5.03505	5.06 g	10 mL	530443	02/23/19 20:49	IM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Client Sample ID: SB9-N5-5

Date Collected: 02/21/19 10:24

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-54

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 g	10 mL	530443	02/23/19 21:17	IM	TAL IRV

Client Sample ID: SB9-N5-7.5

Date Collected: 02/21/19 10:25

Date Received: 02/21/19 13:15

Lab Sample ID: 440-234374-55

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.03 g	10 mL	530627	02/25/19 13:33	EI	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-530443/6

Matrix: Solid

Analysis Batch: 530443

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			02/23/19 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		65 - 140					02/23/19 11:49	1

Lab Sample ID: LCS 440-530443/4

Matrix: Solid

Analysis Batch: 530443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1840		ug/Kg		115	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		65 - 140								

Lab Sample ID: LCSD 440-530443/5

Matrix: Solid

Analysis Batch: 530443

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1760		ug/Kg		110	70 - 135	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		65 - 140								

Lab Sample ID: 440-234374-37 MS

Matrix: Solid

Analysis Batch: 530443

Client Sample ID: SB9-E5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1590	1270		ug/Kg		80	60 - 140		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	83		65 - 140								

Lab Sample ID: 440-234374-37 MSD

Matrix: Solid

Analysis Batch: 530443

Client Sample ID: SB9-E5-2.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1600	1290		ug/Kg		81	60 - 140	1	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	81		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 440-530627/5

Matrix: Solid

Analysis Batch: 530627

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			02/25/19 11:40	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		65 - 140					02/25/19 11:40	1

Lab Sample ID: LCS 440-530627/3

Matrix: Solid

Analysis Batch: 530627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	1600	1670		ug/Kg		104	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	84		65 - 140						

Lab Sample ID: LCSD 440-530627/4

Matrix: Solid

Analysis Batch: 530627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1740		ug/Kg		109	70 - 135	4	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		65 - 140						

Lab Sample ID: 440-234374-55 MS

Matrix: Solid

Analysis Batch: 530627

Client Sample ID: SB9-N5-7.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	510		1570	1720		ug/Kg		77	60 - 140		
Surrogate	%Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		65 - 140								

Lab Sample ID: 440-234374-55 MSD

Matrix: Solid

Analysis Batch: 530627

Client Sample ID: SB9-N5-7.5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	510		1580	1690		ug/Kg		75	60 - 140	2	30
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Lab Sample ID: MB 440-530575/1-A

Matrix: Solid

Analysis Batch: 530656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 14:39	1
C23-C40	3.55	J	5.0	2.5	mg/Kg		02/25/19 06:34	02/25/19 14:39	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	84		40 - 140				02/25/19 06:34	02/25/19 14:39	1

Lab Sample ID: LCS 440-530575/2-A

Matrix: Solid

Analysis Batch: 530656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 530575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
C10-C28	66.7	57.2		mg/Kg		86	45 - 115		
Surrogate	%Recovery	LCS Qualifier	Limits						
n-Octacosane	85		40 - 140						

Lab Sample ID: 440-234374-1 MS

Matrix: Solid

Analysis Batch: 530656

Client Sample ID: SB6-N5-2.5

Prep Type: Total/NA

Prep Batch: 530575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits		
C10-C28	4.4	J	66.5	50.5		mg/Kg		69	40 - 120		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane	82		40 - 140								

Lab Sample ID: 440-234374-1 MSD

Matrix: Solid

Analysis Batch: 530656

Client Sample ID: SB6-N5-2.5

Prep Type: Total/NA

Prep Batch: 530575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	4.4	J	66.5	52.0		mg/Kg		71	40 - 120	3	30
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane	79		40 - 140								

Lab Sample ID: MB 440-531838/1-A

Matrix: Solid

Analysis Batch: 531748

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 531838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		03/01/19 13:11	03/01/19 21:32	1
C23-C40	4.82	J	5.0	2.5	mg/Kg		03/01/19 13:11	03/01/19 21:32	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	84		40 - 140				03/01/19 13:11	03/01/19 21:32	1

TestAmerica Irvine

QC Sample Results

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Lab Sample ID: LCS 440-531838/2-A

Matrix: Solid

Analysis Batch: 531748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 531838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.7	55.9		mg/Kg		84	45 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane	80		40 - 140				

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

GC VOA

Analysis Batch: 530443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-37	SB9-E5-2.5	Total/NA	Solid	8015B	
440-234374-38	SB9-E5-5	Total/NA	Solid	8015B	
440-234374-39	SB9-E5-7.5	Total/NA	Solid	8015B	
440-234374-45	SB9-W5-2.5	Total/NA	Solid	8015B	
440-234374-46	SB9-W5-5	Total/NA	Solid	8015B	
440-234374-47	SB9-W5-7.5	Total/NA	Solid	8015B	
440-234374-49	SB9-S5-2.5	Total/NA	Solid	8015B	
440-234374-50	SB9-S5-5	Total/NA	Solid	8015B	
440-234374-51	SB9-S5-7.5	Total/NA	Solid	8015B	
440-234374-53	SB9-N5-2.5	Total/NA	Solid	8015B	
440-234374-54	SB9-N5-5	Total/NA	Solid	8015B	
MB 440-530443/6	Method Blank	Total/NA	Solid	8015B	
LCS 440-530443/4	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-530443/5	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-234374-37 MS	SB9-E5-2.5	Total/NA	Solid	8015B	
440-234374-37 MSD	SB9-E5-2.5	Total/NA	Solid	8015B	

Analysis Batch: 530627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-55	SB9-N5-7.5	Total/NA	Solid	8015B	
MB 440-530627/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-530627/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-530627/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-234374-55 MS	SB9-N5-7.5	Total/NA	Solid	8015B	
440-234374-55 MSD	SB9-N5-7.5	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 530575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-1	SB6-N5-2.5	Total/NA	Solid	3546	
440-234374-2	SB6-N5-5	Total/NA	Solid	3546	
440-234374-3	SB6-N5-7.5	Total/NA	Solid	3546	
440-234374-9	SB6-E5-2.5	Total/NA	Solid	3546	
440-234374-10	SB6-E5-5	Total/NA	Solid	3546	
440-234374-11	SB6-E5-7.5	Total/NA	Solid	3546	
440-234374-21	SB6-S5-2.5	Total/NA	Solid	3546	
440-234374-22	SB6-S5-5	Total/NA	Solid	3546	
440-234374-23	SB6-S5-7.5	Total/NA	Solid	3546	
440-234374-29	SB6-W5-2.5	Total/NA	Solid	3546	
440-234374-30	SB6-W5-5	Total/NA	Solid	3546	
440-234374-31	SB6-W5-7.5	Total/NA	Solid	3546	
MB 440-530575/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-530575/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-234374-1 MS	SB6-N5-2.5	Total/NA	Solid	3546	
440-234374-1 MSD	SB6-N5-2.5	Total/NA	Solid	3546	

Analysis Batch: 530655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-2	SB6-N5-5	Total/NA	Solid	8015B	530575

TestAmerica Irvine

QC Association Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

GC Semi VOA (Continued)

Analysis Batch: 530655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-3	SB6-N5-7.5	Total/NA	Solid	8015B	530575
440-234374-10	SB6-E5-5	Total/NA	Solid	8015B	530575
440-234374-11	SB6-E5-7.5	Total/NA	Solid	8015B	530575
440-234374-21	SB6-S5-2.5	Total/NA	Solid	8015B	530575
440-234374-22	SB6-S5-5	Total/NA	Solid	8015B	530575
440-234374-23	SB6-S5-7.5	Total/NA	Solid	8015B	530575
440-234374-29	SB6-W5-2.5	Total/NA	Solid	8015B	530575

Analysis Batch: 530656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-1	SB6-N5-2.5	Total/NA	Solid	8015B	530575
440-234374-9	SB6-E5-2.5	Total/NA	Solid	8015B	530575
440-234374-30	SB6-W5-5	Total/NA	Solid	8015B	530575
440-234374-31	SB6-W5-7.5	Total/NA	Solid	8015B	530575
MB 440-530575/1-A	Method Blank	Total/NA	Solid	8015B	530575
LCS 440-530575/2-A	Lab Control Sample	Total/NA	Solid	8015B	530575
440-234374-1 MS	SB6-N5-2.5	Total/NA	Solid	8015B	530575
440-234374-1 MSD	SB6-N5-2.5	Total/NA	Solid	8015B	530575

Analysis Batch: 531742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-5	SB6-NE10-2.5	Total/NA	Solid	8015B	531838

Analysis Batch: 531745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-17	SB6-SE10-2.5	Total/NA	Solid	8015B	531838

Analysis Batch: 531748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-531838/1-A	Method Blank	Total/NA	Solid	8015B	531838
LCS 440-531838/2-A	Lab Control Sample	Total/NA	Solid	8015B	531838

Prep Batch: 531838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-234374-5	SB6-NE10-2.5	Total/NA	Solid	3546	
440-234374-17	SB6-SE10-2.5	Total/NA	Solid	3546	
MB 440-531838/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-531838/2-A	Lab Control Sample	Total/NA	Solid	3546	

Definitions/Glossary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Leighton and Associates Inc
Project/Site: RPP Anaheim

TestAmerica Job ID: 440-234374-1
SDG: 1122 Anaheim Blvd., Anaheim CA

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B	3546	Solid	C13-C22
8015B	3546	Solid	C23-C40

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch		Site Contact: Sabrina Gonzalez		Date: 2/21/2019		COC No: 3 of 5 COCs	
Leighton and Associates Inc		Tel/Fax: (949) 394-2306		Lab Contact: Danielle Roberts		Carrier:		Sampler:	
17781 Cowan		Analysis Turnaround Time		Perform MS / MSD (Y / N)		Filtered Sample (Y / N)		Sample Specific Notes:	
Irvine, CA 92614		☐ CALENDAR DAYS ☐ WORKING DAYS		Sample Date		Sample Type (C-Comp, G-Grab)		Matrix	
99490 681-4293		TAT if different from Below		Sample Time		# of Cont.		For Lab Use Only:	
FAX		☐ 2 weeks		0810		5		Walk-in Client:	
Project Name: RPP Anaheim		☐ 1 week		0812		1		Lab Sampling:	
Site 1122 Anaheim Blvd, Anaheim CA		☐ 2 days		0814		1		Job / SDG No	
PO # 11862.002		☐ 1 day		0823		1			
SB6 - SW10 - 2.5				2-21-19 0810		G		TPH 9	
SB6 - SW10 - 5				2-21-19 0812				TPH 9	
SB6 - SW10 - 7.5				0814				X	
SB6 - SW10 - 10				0816				X	
SB6 - WS - 2.5				0823				X	
SB6 - WS - 5				0825				X	
SB6 - WS - 7.5				0827				X	
SB6 - WS - 10				0828				X	
SB9 - E10 - 2.5				0852				X	
SB9 - E10 - 5				0954				X	
SB9 - E10 - 7.5				0956				X	
SB9 - E10 - 10				0957				X	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification:									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☐ Yes ☐ No									
Relinquished by: <u>Sabrina Gonzalez</u>		Company: <u>Leighton</u>		Date/Time: <u>2-21-19 1315</u>		Received by: <u>[Signature]</u>		Company: <u>TestAmerica</u>	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch		Site Contact: Sabrina Gonzalez		Date: 2/21/2019		COC No: 14 of 5 COCs		
Leighton and Associates Inc.		Tel/Fax: (949) 394-2306		Lab Contact: Danielle Roberts		Carrier:		Sampler:		
17781 Cowan		Analysis Turnaround Time		Perform MS / MSD (Y / N)		Filtered Sample (Y / N)		For Lab Use Only:		
Irvine, CA 92614		☐ CALENDAR DAYS ☐ WORKING DAYS		TAT if different from Below				Walk-in Client:		
99490 681-4293		Phone		2 weeks				Lab Sampling:		
FAX				1 week				Job / SDG No		
Project Name: RPP Anaheim				2 days						
Site: 1122 Anaheim Blvd, Anaheim CA				1 day						
P O # 11862.002										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
SB9-ES-2.5		2-21-14	1014	G	S	1				
SB9-ES-5			1016							
SB9-ES-7.5			1018							
SB9-ES-10			1020							
SB9-W10-2.5			1047							
SB9-W10-5			1048							
SB9-W10-7.5			1050							
SB9-W10-10			1052							
SB9-W5-2.5			1038							
SB9-W5-5			1039							
SB9-W5-7.5			1041							
SB9-W5-10			1043							
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification:										
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample										
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C):		Obs'd:		Therm ID No.:		
Relinquished by: Sabrina Gonzalez		Company: Leighton		Date/Time: 2-21-14 1315		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch Tel/Fax: (949) 394-2306		Site Contact: Sabrina Gonzalez Lab Contact: Danielle Roberts		Date: 2/21/2019		COC No: 5 of 5 COCs			
Leighton and Associates Inc. 17781 Cowan Irvine, CA 92614 99490 681-4293 Phone FAX		Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		# of Matrix Cont.	
Sample Identification		SB9-SS-2.5		2-21-19		1030		G		S 1	
SB9-SS-5						1031					
SB9-SS-7.5						1033					
SB9-SS-10						1035					
SB9-NS-2.5						1022					
SB9-NS-5						1024					
SB9-NS-7.5						1025					
SB9-NS-10						1027					
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C) Obs'd:		Corr'd:		Therm ID No.:			
Relinquished by: Sabrina Gonzalez		Company: Leighton		Received by: [Signature]		Company: [Signature]		Date/Time: 2-21-19 1315			
Relinquished by:		Company:		Received by:		Company:		Date/Time:			
Relinquished by:		Company:		Received by:		Company:		Date/Time:			

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Brynn McCulloch Tel/Fax: (949) 394-2306		Site Contact: Sabrina Gonzalez Lab Contact: Danielle Roberts		Date: 2/21/2019		COC No: 1 of 5 COCs									
Leighton and Associates Inc. 17781 Cowan Irvine, CA 92614 99490 681-4293 FAX Project Name: RPP Anaheim Site: 1122 Anaheim Blvd, Anaheim CA P O # 11862 002		Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☒ 2 days ☐ 1 day		Sample Date		Sample Time		Sample Type (C-Comp, G-Grab)		# of Matrix Cont.		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:	
SB6 - NS - 2.5		2-21-19		0923		6		S		1							
SB6 - NS - 5				0925													
SB6 - NS - 7.5				0927													
SB6 - NS - 10				0929													
SB6 - NE10 - 2.5				0935													
SB6 - NE10 - 5				0937													
SB6 - NE10 - 7.5				0939													
SB6 - NE10 - 10				0940													
SB6 - ES - 2.5				0903													
SB6 - ES - 5				0905													
SB6 - ES - 7.5				0907													
SB6 - ES - 10				0909													
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.												Return to Client ☐ Archive for ☐ Disposal by Lab ☐ Months					
Special Instructions/QC Requirements & Comments:												Custody Seal No.: 3-0 2.5 12.94					
Custody Seals Intact: ☐ Yes ☐ No												Therm ID No.:					
Relinquished by: Sabrina Gonzalez												Received by: [Signature]					
Relinquished by: [Signature]												Received by: [Signature]					
Relinquished by: [Signature]												Received by: [Signature]					

#N/A
#N/A
#N/A
#N/A

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Project Manager: Brynn McCulloch

Site Contact: Sabrina Gonzalez

Date: 2/21/2019

Leighton and Associates Inc
17781 Cowan
Irvine, CA 92614
99490 681-4293 FAX
Project Name: RPP Anaheim
Site: 1122 Anaheim Blvd, Anaheim CA
P O # 11862 002

Analysis Turnaround Time
☐ CALENDAR DAYS ☐ WORKING DAYS
TAT if different from Below
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH d.o	TPH Hold	Sample Specific Notes
SB6 - NW10 - 2.5	2-21-19	0754	G	S	1					
SB6 - NW10 - 5		0757								
SB6 - NW10 - 7.5		0759								
SB6 - NW10 - 10		0800								
SB6 - SE10 - 2.5		0850								
SB6 - SE10 - 5		0853								
SB6 - SE10 - 7.5		0855								
SB6 - SE10 - 10		0856								
SB6 - S5 - 2.5		0835								
SB6 - S5 - 5		0837								
SB6 - S5 - 7.5		0839								
SB6 - S5 - 10		0840								

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

30 2.5 1004

Custody Seal No.:
Relinquished by: Sabrina Gonzalez
Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Login Sample Receipt Checklist

Client: Leighton and Associates Inc

Job Number: 440-234374-2

SDG Number: 1122 Anaheim Blvd., Anaheim CA

Login Number: 234374

List Number: 1

Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	