

***SUPPLEMENTAL PRELIMINARY
ENDANGERMENT ASSESSMENT –
EQUIVALENT REPORT***

***RESEDA HIGH SCHOOL
COMPREHENSIVE MODERNIZATION
PROJECT
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA 91335***



Prepared for

**Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017**

February 15, 2019

Prepared by

PARSONS 100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

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TABLE OF CONTENTS

Executive Summary	v
1.0 Introduction.....	1
2.0 Sampling Activities.....	1
2.1 Sampling Strategy	2
2.2 Preliminary Screening Levels	2
2.3 Pre-Field Activities	3
2.4 Field Activities	3
2.5 Equipment Decontamination.....	7
2.6 Investigative Derived Waste	7
2.7 Building Inventory	8
3.0 Results.....	9
3.1 Introduction	9
3.2 Soil Analytical Results	9
3.3 Soil Vapor Sampling Results	10
3.4 Delineation of Impacts in Soil.....	12
3.5 Delineation of Impacts in Soil Vapor.....	12
4.0 Field Variances	14
5.0 Human Health Screening Evaluation.....	15
5.1 Soils.....	15
5.2 Soil Vapor/Sub-Slab Soil Vapor/Indoor Air	15
6.0 Conclusions and Recommendations	17
6.1 Conclusions	17
6.2 Recommendations	18
7.0 References.....	19

TABLES

TABLE 1	ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
TABLE 2	ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
TABLE 3	ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TABLE 4	SOIL VAPOR PROBE SAMPLING ANALYTICAL RESULTS
TABLE 5	SUB-SLAB VAPOR PIN SAMPLING ANALYTICAL RESULTS
TABLE 6	INDOOR/OUTDOOR AIR ANALYTICAL RESULTS

FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	BUILDING LOCATIONS
FIGURE 3	SOIL VAPOR AND SUB-SLAB SAMPLING LOCATIONS
FIGURE 4	INDOOR/OUTDOOR AIR AND SUB-SLAB SAMPLING LOCATIONS
FIGURE 5	TETRACHLOROETHENE IN SOIL VAPOR AT 5 FT BGS
FIGURE 6	TETRACHLOROETHENE IN SOIL VAPOR AT 15 FT BGS

APPENDICES

APPENDIX A	BORING LOGS
APPENDIX B	WIND DIRECTIONS
APPENDIX C	WASTE MANIFESTS
APPENDIX D	BUILDING INVENTORY
APPENDIX E	SOIL ANALYTICAL LABORATORY REPORTS
APPENDIX F	SOIL VAPOR AND INDOOR / OUTDOOR ANALYTICAL LABORATORY REPORTS

ACRONYMS

AOCs	Areas of Concern
bgs	below ground surface
BESI	Belshire Environmental Services, Inc.
CMP	Comprehensive Modernization Project
cc/min	cubic centimeters per minute
CoC	Chain of Custody
COC	Chemical of Concern
DRO	diesel-range organics
DTSC	Department of Toxic Substances Control
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
GRO	gasoline-range organics
HHRA	Human Health Risk Assessment
HHSE	Human Health Screening Evaluation
HVAC	heating, ventilation and air conditioning
ft	feet
IDW	investigation-derived waste
LAUSD	Los Angeles Unified School District
mg/kg	milligrams per kilogram
mL/min	milliliters per minute
ORO	oil-range organics
PCBs	Polychlorinated biphenyls
PCE	tetrachloroethene
PEA-E	Preliminary Endangerment Assessment – Equivalent
PID	Photoionization Detector
PSL	Preliminary Screening Level
QA/QC	quality assurance/quality control
RAW	Removal Action Workplan
RECs	Recognized Environmental Conditions
Report	Preliminary Endangerment Assessment – Equivalent Report
RSL	USEPA Regional Screening Level
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
Site	Reseda High School
SL	Screening Level
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
µg/m ³	micrograms per cubic meter
VOCs	volatile organic compounds

EXECUTIVE SUMMARY

This document presents the results of a *Supplemental Preliminary Endangerment Assessment – Equivalent (PEA-E) Report* (Report) conducted for Los Angeles Unified School District’s (LAUSD) Reseda High School (Site) in support of a Comprehensive Modernization Project (CMP). This Report presents a summary of Supplemental PEA-E activities, which includes several sampling and analyses events, performed in support of the proposed CMP on the school campus, located at 18230 Kittridge Street, Reseda, California (**Figure 1**).

Initial PEA-E activities were conducted between December 2017 and May 2018 to assess environmental conditions at selected areas within the CMP footprint prior to LAUSD’s proposed demolition, modernization and construction activities. The Site background and environmental setting details are presented in the initial PEA-E Report (Parsons 2018a). The Supplemental PEA-E activities were conducted between September 2018 and January 2019 to further delineate soil vapor impacts in and around the Industrial Arts Building (**Figure 2**). The Supplemental PEA-E was conducted per the Draft Indoor Air Sampling Workplan (Parsons, 2018b) that was verbally approved by LAUSD on October 8, 2018. Various additional sampling activities described in this document were requested by LAUSD as the work progressed.

The following conclusions were derived from the supplemental investigation conducted at Reseda High School for soil, soil vapor and indoor air. Previous recommendations regarding the presence of lead and arsenic in soil above their respective PSLs are documented in the PEA-E Report (Parsons, 2018a).

Soil

- Soil was sampled for PCBs, TPH, and VOCs during the supplemental investigation in AOC4. There were no detections above the PSLs, which is consistent with the original investigation results (Parsons, 2018a). Therefore, PCBs, TPH, and VOCs are not considered COCs in soil.

Soil Vapor

- A total of 41 soil vapor samples, including duplicates, were collected from selected soil vapor probes during the supplemental investigation on September 5 and 19, October 9, 2018 and January 3, 2019 to further characterize soil vapor concentrations in AOC4. Select probes were sampled in multiple events to provide additional data for decision-making purposes. LAUSD Office of Environmental Health and Safety (OEHS) requested that the analytical data now be compared against the DTSC’s future PSLs. PCE was detected above the future PSL ($15 \mu\text{g}/\text{m}^3$) at 31 sample (either 5 or 15 ft bgs) locations. In the 41 vapor samples, PCE concentrations ranged from $1.7 \mu\text{g}/\text{m}^3$ (AOC4-SV17-5) to $1,440 \mu\text{g}/\text{m}^3$ (AOC4-SV10-5). The future PSL for naphthalene is $2.8 \mu\text{g}/\text{m}^3$. Naphthalene exceeded the future PSL concentration in five of the 41 samples, ranging from $3.0 \mu\text{g}/\text{m}^3$ (AOC4-SV16-

5) to 774 $\mu\text{g}/\text{m}^3$ (AOC4-SV8-15). 1,2,4-trimethylbenzene exceeded the future PSL concentration (2,100 $\mu\text{g}/\text{m}^3$) in one (AOC4-SV8-15) of the 41 samples, at 2,440 $\mu\text{g}/\text{m}^3$. Benzene exceeded the future PSL concentration (3.2 $\mu\text{g}/\text{m}^3$) in one (AOC4-SV8-15) of the 41 samples, at 7 $\mu\text{g}/\text{m}^3$. Note that for benzene and naphthalene the non-detect values reported by the laboratory are the method detection limits; some of which exceed the future PSLs. No other VOCs were detected above their respective PSLs.

- Based on the multiple soil vapor sampling events from previously installed and more recently installed soil vapor probes, vapor-phase VOCs are considered laterally delineated but not vertically delineated (**Figure 5 and Figure 6**). VOCs, including PCE (the most prevalent compound of concern), was detected above the future PSLs in soil vapor at 5- and 15-ft bgs at probe locations in many of the previously installed soil vapor probe locations (AOC4-SV1 through AOC4-SV13) and in the soil vapor probe locations AOC4-SV13 through AOC4-SV15 installed for the supplemental investigation.
- Several soil vapor probes had reported concentrations of naphthalene and 1,2,4-trimethylbenzene above their respective future PSL. As discussed in Section 3.5, these two compounds have not been observed in any of the other soil vapor probes sampled during multiple events during the initial and supplemental scope of work. Given the sporadic and isolated nature of these detections they are not considered Site COCs.
- On September 15 and 19, 2018, 12 sub-slab vapor pins were sampled for soil vapor. PCE concentrations in the sub-slab vapor pins sampled on September 15 and 19, 2018 ranged from 18 $\mu\text{g}/\text{m}^3$ (AOC4-SS10) to 1,300 $\mu\text{g}/\text{m}^3$ (AOC4-SS-3). Based on PCE concentrations exceeding the sub-slab PSLs, indoor and outdoor air sampling was conducted to further assess vapor intrusion potential to indoor air.
- Benzene was detected at concentrations above the future PSLs at various soil vapor probes and sub-slab probes during the initial investigation (May 2018 event). Subsequent sampling of these and additional probes conducted during the supplemental investigation did not confirm the continued presence of benzene in soil vapor probes and sub-slab probes. Based on the benzene detections during the initial investigation it is considered a Site COC.

Indoor Air

During the supplemental investigation, three indoor and outdoor air sampling events were conducted using Summa canisters. For each event, three outdoor air samples and four indoor air samples were collected. These samples were collected concurrent with selected sub-slab vapor pins to help interpret the origin of any indoor air VOC detections.

- PCE was not detected above the residential PSL (0.46 $\mu\text{g}/\text{m}^3$) in any of the 23 indoor, outdoor, or underground utility tunnel air samples collected on any of the three sample dates. Low concentrations of PCE were detected with the HVAC system on and with it off. Thus, even under worst-case conditions (i.e., HVAC off, which reduces the dilution of indoor air with outdoor air), exposures to PCE in indoor air result in a residential risk

estimate less than 1×10^{-6} and noncancer hazard quotient less than one, which is acceptable. Although PCE concentrations are below the PSL in indoor air, the sub-slab concentrations are high enough that there is still a potential for concern if the existing building is replaced by a new building.

- As discussed in Section 5.2, benzene in soil vapor and sub-slab soil vapor at the Site does exceed the future PSLs, but the concentrations of benzene in indoor air and outdoor air appear to be relatively similar, indicating that benzene does not represent a potential vapor intrusion issue.

Recommendations

The following are recommendations based on the above conclusions:

- A Removal Action Workplan (RAW) should be developed for the Site to address PCE and benzene soil vapor impacts above the future PSLs, as well as to address previously identified (Parsons, 2018a) shallow soils impacted with lead and/or arsenic above their PSLs.

1.0 INTRODUCTION

This document presents the results of a *Supplemental Preliminary Endangerment Assessment – Equivalent (PEA-E) Report* (Report) conducted for Los Angeles Unified School District’s (LAUSD) Reseda High School (Site) in support of a Comprehensive Modernization Project (CMP). This Report presents a summary of Supplemental PEA-E activities, which includes several sampling and analyses events, performed in support of the proposed CMP on the school campus, located at 18230 Kittridge Street, Reseda, California (**Figure 1**).

Initial PEA-E activities were conducted between December 2017 and May 2018 to assess environmental conditions at selected areas within the CMP footprint prior to LAUSD’s proposed demolition, modernization and construction activities. The Site background and environmental setting details are presented in the initial PEA-E Report (Parsons 2018a). The Supplemental PEA-E activities were conducted between September and January 2019 to further delineate soil vapor impacts in and around the Industrial Arts Building (**Figure 2**). The Supplemental PEA-E was conducted per the Draft Indoor Air Sampling Workplan (Parsons, 2018b) that was verbally approved by LAUSD on October 8, 2018. Various additional sampling activities described in this document were requested by LAUSD as the work progressed. The work was conducted in accordance with applicable regulatory including the *Preliminary Environmental Assessment Guidance Manual* (DTSC, 2015a) prepared by the California Department of Toxic Substances Control (DTSC). A human health screening evaluation (HHSE) was conducted for the Site based on the soil and soil vapor analytical data generated during the supplemental field investigation.

2.0 SAMPLING ACTIVITIES

The following sections describe the Supplemental PEA-E activities performed, including sampling strategy, methods and procedures, sample handling, decontamination procedures, and management of investigation-derived waste (IDW) for the field investigation. Soil sampling and soil vapor probe installation was conducted on September 10 and October 6, 2018. Soil vapor sampling was conducted on September 15 and 19 and October 9, 2018, and January 3, 2019. Indoor and outdoor air sampling with concurrent sub-slab soil vapor sampling was conducted on October 5 and 6, 2018, and January 3, 2019.

Site access and fieldwork notifications to school administrative personnel were coordinated with the LAUSD-OEHS Project Manager, the LAUSD Complex Project Manager, and the Reseda High School Plant Manager. The following subcontractors supported the fieldwork: Pacific Coast Locators (subsurface utility clearance), Rice General (concrete coring and hand augering), Gregg Drilling (direct push soil sampling and soil vapor probe installation), TestAmerica Laboratories, Inc. (soil sample analysis), Jones Environmental (soil vapor sample collection/analysis), and Belshire Environmental Services, Inc. (IDW transport and disposal).

2.1 SAMPLING STRATEGY

The supplemental PEA-E field program consisted of soil and soil vapor sampling to further investigate the recommended environmental conditions (RECs) in and around Area of Concern 4 (AOC4), which is the Industrial Arts buildings in the central portion of the school campus. Thirteen soil vapor probes (AOC4-SV1 and AOC4-SV13) were previously installed and sampled during the PEA-E field investigation (Parsons, 2018a). Soil vapor probes AOC4-SV14 through AOA4-SV17 were subsequently installed and sampled to further delineate volatile organic compounds (VOCs) in soil gas. Twelve sub-slab soil vapor pins were also installed and sampled in the four Industrial Arts building classrooms to evaluate VOCs immediately beneath the foundation slabs. The sample locations, depths, analytical parameters, and sample location rationale were approved by LAUSD. Soil vapor and sub-slab soil vapor locations are shown on **Figures 3**.

Based on the results of the soil vapor and sub-slab soil vapor samples, indoor air samples were collected to determine if there is a complete vapor intrusion pathway and a potential human health risk associated with the Industrial Arts Building in Rooms IA4, IA5A, IA5B, and IA6. Outdoor air samples and sub-slab soil vapor samples (at select locations) were collected concurrently with indoor air samples. Indoor and outdoor air sample locations are shown on **Figure 4**.

2.2 PRELIMINARY SCREENING LEVELS

Analytical results for the soil, soil vapor, sub-slab soil vapor, and outdoor air samples were compared with risk-based screening levels to determine if the analytes are present at the Site at concentrations that may represent a potential health risk. The derivation of the screening levels used for the various chemical constituents is described in the following sub-sections. The screening levels are referred to here and after as PSLs (preliminary screening levels). Note that in the initial PEA-E Report (Parsons 2018a), the current (as of 2018) PSLs were used to compare the data generated during the initial PEA activities. Based on LAUSD's subsequent request, the soil vapor and sub-slab soil vapor data generated during the Supplemental PEA-E activities are compared against the screening levels generated using the USEPA (2015) attenuation factors, as recommended in DTSC's draft vapor intrusion guidance (Haley and Aldrich, 2018).

2.2.1 Preliminary Screening Levels for Soil

For direct exposures to soils, DTSC's (2015a) *Preliminary Endangerment Assessment Manual* states that the risk-based screening levels that should be used are the "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in Human Health Risk Assessment (HHRA) Note 3." Thus, the PSLs for soil used here are, in general, the USEPA (2018) RSLs unless DTSC (2018) has published a screening value, termed the DTSC-SL. Chemicals with special considerations are discussed in more detail below.

Petroleum hydrocarbons: Neither DTSC (2018) nor USEPA (2018) provide risk-based screening levels for petroleum hydrocarbons as measured by USEPA 8015. Instead, DTSC (2015)

recommends that the risk-based screening levels derived by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, 2019) for direct contact be used.

2.2.2 Screening Levels for Soil Vapor and Sub-Slab Soil Vapor

Soil vapor screening levels were based on the USEPA (2018) residential RSLs for air, as modified by the DTSC (2018) residential screening levels (SLs) for air. However, these screening levels are for indoor and/or ambient air. To convert them to soil vapor and sub-slab soil vapor screening levels, the indoor air screening levels are divided by an attenuation factor. Both DTSC (2011) and USEPA (2015) recommend different attenuation factors. However, DTSC has incorporated the USEPA (2015) attenuation factors into their draft vapor intrusion guidance (Haley and Aldrich, 2018). As that guidance has not yet been released, soil vapor and sub-slab soil vapor PSLs were derived using both the DTSC (2011) attenuation factors (called the “current PSLs”) and the USEPA (2015) attenuation factors (called the “future PSLs”).

2.2.3 Screening Levels for Indoor Air

Indoor air screening levels were taken from the USEPA (2018) residential RSLs for air, as modified by the DTSC (2018) residential SLs for air.

2.3 PRE-FIELD ACTIVITIES

Soil boring locations were pre-marked with white paint and Underground Service Alert of Southern California (DigAlert) was notified (on September 4 and October 3, 2018) of the proposed boring locations prior to initiating boring activities. DigAlert contacted the utility owners of record within the Site vicinity and notified them of the planned subsurface investigation. The utility owners of record, or their designated agents, clearly marked the position of their utilities on the ground surface on the public right-of-way sidewalks and street adjacent to the area designated for investigation, up to the school property line. LAUSD provided several available as-built plans depicting locations of subsurface structures and utilities which were also reviewed prior to marking the boring locations.

The proposed excavation areas were surveyed by Pacific Coast Locators, a private utility locator, for the presence of underground utilities using geophysical methods (including ground-penetrating radar, electromagnetic utility locating, and deep search metal detector). Based on the presence of subsurface utilities identified in several locations, each affected boring location was relocated slightly or cancelled, to avoid causing damage to the utility.

2.4 FIELD ACTIVITIES

The following work was completed in AOC4:

On September 10, 2018 soil vapor probes AOC4-SV14 and AOC4-SV15 were installed at 5 and 15 feet (ft) below ground surface (bgs), and sub-slab probes AOC4-SS-4 through AOC4-SS-12 were installed inside the Industrial Arts buildings.

On September 15, 2018 soil vapor probes AOC4-SV1, AOC4-SV2, AOC4-SV3, AOC4-SV6, AOC4-SV8 – AOC4-SV11, AOC4-SV15, and sub-slab probes AOC4-SS8 through AOC4-SS12 were sampled.

On September 19, 2018, soil vapor probes AOC4-SV9, AOC4-SV10, AOC4-SV11, AOC4-SV13 and AOC4-SV14 were sampled, and sub-slab probes AOC4-SS1 through AOC4-SS5, and AOC4-SS7 were sampled.

On October 5, 2018, soil vapor probes AOC4-SV16 and AOC4-SV17 were installed (5 and 15 ft bgs), west and north of the Industrial Arts buildings, respectively. Sub-slab probes AOC4-SS3, AOC4-SS5, AOC4-SS7 and AOC4-SS12 were sampled. Indoor air samples IAS-1 through IAS-4 and outdoor air samples OAS-1 through OAS-3, were collected while the heating, ventilation and air conditioning (HVAC) unit was in normal operating mode.

On October 6, 2018 sub-slab probes AOC4-SS3, AOC4-SS5, AOC4-SS7 and AOC4-SS12 were sampled. Indoor air samples IAS-1 through IAS-4 and outdoor air samples OAS-1 through OAS-3, were collected while the HVAC unit was in non-operating (off) mode.

On October 9, 2018, soil vapor probes AOC4-SV16 and AOC4-SV17 were sampled.

On January 3, 2019, the following samples were collected while the HVAC system was in normal operating mode:

- Indoor air samples IAS-1 through IAS-4.
- Outdoor air samples OAS-1 through OAS-3.
- Underground utility tunnel air samples UT-1 and UT-2.
- Sub-slab samples AOC4-SS3, AOC4-SS5 and AOC4-SS7.
- Soil vapor probes AOC4SV5, AOC4-10, AOC4-SV12, AOC4-SV16 and AOC4-SV17.

The following sections provide more detail on the probe installation and sampling activities.

2.4.1 Soil Sample Collection and Probe Construction

During installation of soil vapor probes AOC4-SV14 and AOC4-SV15 on September 10, 2018 and AOC4-SV16 and AOC4-SV17 on October 5, 2018, soil samples were collected at 5 and 15 ft depth intervals. Each soil sample was collected in a manner that minimized disturbance and allowed the sample to retain as much of the original structure as possible. Soil samples were collected directly from the hand auger at each depth interval and placed in a laboratory-provided glass jar and TerraCore sample container. Soil samples were collected in the individual containers, which were placed in individual sealable plastic bags. Each sample container was labeled individually, stored in an ice chest containing ice, and delivered to a certified laboratory with a chain-of-custody form.

Soil vapor probes AOC4-SV14 through AOC4-SV17 were installed as dual-nested probes, using a hand auger. The concrete was cored at boring locations AOC4-SV14 and AOC4-SV15 prior to hand augering. A 6-inch long stainless-steel inlet screen was connected to ¼-inch outer diameter

Teflon tubing, which extended from ground surface to approximately 14.5- to 15-ft bgs and 4.5- to 5-ft bgs. The screens were centered within approximately 1 foot of #2/16 sand so that approximately 3 inches of sand extended above and below the screen ends. One foot of dry granular bentonite was placed immediately above each sand interval and then overlain with hydrated granular bentonite. Granular bentonite extended from 14.25- to 5.25-ft bgs, and from 4.25-ft bgs to 1-foot bgs. Near ground surface, the vapor monitoring probe tube ends were placed in a plastic bag and coiled in the top of the borehole. The cores at AOC4-SV14 and AOC4-SV15 were capped with temporary asphalt patch. Boring logs are in **Appendix A**.

Sub-Slab Vapor Pin Construction

Sub-slab soil vapor sampling was conducted by installing a VAPOR PIN[®] at nine locations (AOC4-SS4 through AOC4-SS12) inside the Industrial Arts buildings. A hammer drill was used to drill a 1 ½-inch diameter hole into the concrete a minimum of 1 ¾-inches into the slab. A 5/8-inch diameter hole was drilled through the slab and approximately 1-inch into the underlying soil to form a void. The lower end of the VAPOR PIN[®] assembly was placed in the hole and the pin was tapped into place using a dead hammer. The VAPOR PIN[®] was protected using the flush-mount cover.

2.4.2 Soil Vapor Sample Collection

The vapor monitoring probes and sub-slab probes were allowed to equilibrate at least 48 hours prior to purging and sampling. The probes were sampled in accordance with *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations* (DTSC, 2015b). Purge volumes were calculated at each vapor probe using the volume of the soil vapor probe, filter pack, dry bentonite, and the tubing in the purge/sampling train to the purge pump.

Prior to purging and sampling at each soil vapor probe or sub-slab probe, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of approximately 100 inches of water, sealing the entire system and observing the vacuum for a minimum of 1 minute. A vacuum gauge, connected in parallel to the apparatus, was used to measure the vacuum. The above-ground fittings were adjusted until there was no noticeable change in the vacuum.

The purge and sampling flow rate was approximately 200 cubic centimeters per minute (cc/min), as noted on the laboratory provided analytical reports and chain of custody (CoC) forms. A default of 3 purge volumes was used as recommended by DTSC (2015b) guidance. Purging was completed using a pump except if noted on the CoC. Soil vapor samples were collected in glass gas-tight syringes equipped with Teflon plungers, with the exception of samples collected on October 9, 2018 and January 4, 2019, which were collected in 1-liter Summa canister.

A tracer gas of n-pentane, n-hexane, and n-heptane was used as leak-test compounds to determine if there were surface leaks into the subsurface due to lack of annular space probe seals. The tracer gas was placed at the tubing-surface interface before sampling. The tracer gas was included as a target analyte during the VOC analysis.

Soil vapor samples were analyzed for VOCs by a mobile laboratory using EPA Method 8260, with the exception of soil vapor samples collected from AOC4-SV16 and AOC4-SV17 (October 9, 2018), which were analyzed using EPA Method TO-15. The quality assurance quality control (QA/QC) documents are provided with the soil vapor laboratory reports.

2.4.3 Indoor and Outdoor Air Sampling

Indoor air sampling locations were selected to provide data to evaluate potential indoor air risk to possible future occupants of the Industrial Arts buildings IA4, IA5A, IA5B, and IA6.

On October 5 and 6, 2018, air samples were collected in 6-liter Summa canisters from each of the four rooms listed directly above. Air samples were collected on October 5 with the HVAC system in normal operating mode (on) and October 6 with the HVAC system non-operating (off) mode. Three outdoor background ambient air samples were collected on both days, as well as a sub-slab probe with the highest detection from previous sampling events in each room was selected for resampling to characterize the concentrations of target analytes to aid in interpreting the indoor air results. This included location AOC4-SS5 in Room IA6; AOC4-SS3 in Room IA4; AOC4-SS7 Room IA5B; and AOC4-SS12 in Room IA5A.

An additional round of indoor and outdoor air sampling was conducted in January 2019 to provide additional characterization during the winter season. The samples collected during the winter season event with the HVAC system on and at the same locations as the October 5 and 6 events. Additionally, air sampled were collected in the underground utility tunnel located to the west and south of the Industrial Arts Building.

The indoor air and outdoor background ambient air sampling locations are depicted on **Figure 4**.

2.4.4 Indoor/Outdoor Sampling Methodology and Procedures

For indoor air sampling in the classrooms, the windows and doors of the building were closed, and ingress / egress activities to the building were minimized.

- Personnel was onsite for the duration of the sampling event to document conditions during the sampling.
- The air inlet for the sampling Summas were located approximately 4 to 5 feet above the ground surface in the breathing zone. The indoor air samples were collected in the middle of each room, away from doors.
- Each sampling Summa container was equipped with a dedicated vacuum gauge and laboratory-calibrated flow regulator.

The outdoor air samples were collected in a location that was generally upwind of known subsurface plumes. Each outdoor air sampler was placed approximately 4 to 5 feet above the ground and was collected at the same time the indoor samples were collected. Current wind conditions were checked minutes prior to the start of the air sample collection and throughout each event, by using the weather data provided from nearby Van Nuys Airport, on the website https://www.windfinder.com/report/van_nuys_airport. The recorded wind directions are

presented in **Appendix B**. To the extent feasible, the outdoor air samples were located away from obvious chemical sources such as powered engines, trash areas, etc.

The air samples were collected directly into pre-cleaned, batch-certified, 6-liter, flow-controlled, evacuated Summa canisters. The laboratory provided flow controllers were pre-calibrated to collect the air samples at 12.5 milliliters per minute (mL/min) over an 8-hour period.

The collection of indoor air was initiated at each Summa canister at approximately the same time (within several minutes of each other). Each sample was finished when either the vacuum in the canister reached approximately 2 to 3 inches of mercury prior to 8 hours, or after eight hours from the sample start time.

Sub-Slab samples (at select locations) were collected directly into pre-cleaned, batch-certified, 1-liter, flow-controlled evacuated Summa canisters immediately after indoor air sampling was completed. The laboratory provided flow controllers were pre-calibrated to collect the air samples at 200 cc/min.

The initial and final vacuum in each canister was recorded on the CoC form and in the field log book. The completed CoC was sent with the air sample shipment to the laboratory.

2.4.5 Sample Analysis

The indoor air, outdoor air, and select sub-slab samples were collected and analyzed for selected VOCs using Environmental Protection Agency (EPA) Method TO-15. Analytical services were provided by Jones Environmental, Inc., with a laboratory accredited by the Environmental Laboratory Accreditation Program (ELAP) certified.

2.5 EQUIPMENT DECONTAMINATION

Down-hole equipment used during soil sampling activities was decontaminated prior to use at each sampling point to reduce the potential for cross-contamination. Reusable sampling equipment was decontaminated between each sampling event using the following procedures:

- Wash with Liquinox and brush to remove excess contaminants;
- Rinse with distilled water; and
- Rinse twice with distilled water.

2.6 INVESTIGATIVE DERIVED WASTE

Used personal protective equipment and disposable equipment was double-bagged and placed in the on-site dumpster. These wastes are not considered hazardous and were sent to a municipal landfill.

One 55-gallon drum of soil cuttings was generated during the field activities. The soil was temporarily stored on-site in the labeled Department of Transportation-approved drum pending disposal profiling. The drum was removed by Belshire Environmental Services, Inc. (BESI) on

November 9, 2018. The drums were disposed of at Soil Safe in Adelanto, California. Drum disposal documentation is provided in **Appendix C**.

2.7 BUILDING INVENTORY

A building inventory survey was conducted in accordance with DTSC’s vapor intrusion guidance (DTSC, 2011). Indoor sources of contamination were identified and photographed prior to indoor air sampling. Each room was inspected, and products that contain volatile chemicals were listed on the Building Screening Form, along with the volatile ingredients of each product (**Appendix D**). A photoionization detector (PID) was used to measure total VOCs from areas where products were stored. There were no PID readings above background concentrations (i.e., 0.0 parts per million).

3.0 RESULTS

3.1 INTRODUCTION

This section discusses the results of the soil and soil vapor sampling. Soil samples were analyzed by TestAmerica Laboratories, Inc., an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory located in Irvine, California. The soil gas mobile laboratory and fixed-laboratory samples were analyzed by Jones Environmental, Inc. The data were reviewed and are considered acceptable for decision-making purposes. Copies of soil analytical laboratory reports are provided in **Appendix E**, and soil gas and air sample analytical laboratory reports are provided in **Appendix F**.

3.2 SOIL ANALYTICAL RESULTS

Analytical results from the soil sampling during installation of probe locations AOC4-SV14 through AOC4-SV17 are summarized in the following sections. The results are discussed for compounds that were previously analyzed in soil. The polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), and VOCs analytical data are compiled in **Tables 1 – 3, respectively**, and the soil sample locations are presented on **Figure 3**.

The samples were analyzed by TestAmerica using the following methods:

- PCBs by US EPA Method 8082
- TPH by US EPA Method 8015M
- VOCs by US EPA Method 8260B

3.2.1 PCBs

Eight primary and two duplicate soil samples were collected within AOC4 during the supplemental phase of work and analyzed for PCBs. The soil samples were collected during installation of soil vapor probes AOC4-SV14 through AOC4-SV17 at 5 and 15 ft bgs. PCBs were not detected above their respective laboratory reporting limits in any of the samples analyzed. Based on these results, PCBs are not considered a Site chemical of concern (COC). The PCB laboratory data results are provided in **Table 1**.

3.2.2 TPH

Eight primary and two duplicate soil samples were collected within AOC4 during the supplemental phase of work and analyzed for TPH in the gasoline range (GRO), diesel range (DRO), and oil range (ORO) organics. GRO was not detected above the laboratory reporting limit in the 10 samples analyzed. DRO was detected above the laboratory reporting limit in one sample analyzed (sample AOC4-SV17-5); the reported concentration was 3.5J (estimated value). ORO was detected above the method detection limit in 10 soil samples ranging in concentration from 3.2J milligrams per kilogram (mg/kg) (AOC4-SV16-15) to 10 mg/kg (AOC4-SV17-5). Detections of

ORO were below the San Francisco RWQCB RSL of 12,033 mg/kg (San Francisco Regional Board 2019). The analytical results are provided in **Table 2**. Based on these results, TPH is not considered a Site COC.

3.2.3 VOCs in Soil

Eight primary and two duplicate soil samples were collected within AOC4 during the supplemental phase of work and analyzed for VOCs. No VOC compounds were detected in soil above their respective reporting limits. The analytical results are provided in **Table 3**.

3.3 SOIL VAPOR SAMPLING RESULTS

3.3.1 VOCs in Soil Vapor Probes

Dual-nested soil vapor probes were installed at four new locations (AOC4-SV14 through AOC4-SV17) to further delineate tetrachloroethene (PCE) in soil vapor.

A total of 41 soil vapor samples, including duplicates, were collected from selected soil vapor probes as directed by LAUSD, on September 5 and 19 and October 9, 2018 and January 3, 2019. Some of the sampled probes were resample events to provide additional comparison data. The vapor samples were analyzed by Jones Environmental mobile or fixed laboratory for VOCs during each of the sample events. LAUSD OEHS requested that the current analytical data generated during the supplemental sampling and analyses be compared against the DTSC's future PSLs. PCE concentrations ranged from 1.7 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (AOC4-SV17-5) to 1,440 $\mu\text{g}/\text{m}^3$ (AOC4-SV10-5). PCE was detected above the future PSL 15 $\mu\text{g}/\text{m}^3$ at 31 sample (either 5 or 15 ft bgs) locations. The future DTSC PSL for naphthalene is 2.8 $\mu\text{g}/\text{m}^3$. Naphthalene exceeded the future PSL concentration in five of the 41 samples, ranging from 3.0 $\mu\text{g}/\text{m}^3$ (AOC4-SV16-5) to 774 $\mu\text{g}/\text{m}^3$ (AOC4-SV8-15). Benzene exceeded the future PSL concentration (3.2 $\mu\text{g}/\text{m}^3$) in one (AOC4-SV8-15) of the 41 samples, at 7 $\mu\text{g}/\text{m}^3$. 1,2,4-Trimethylbenzene exceeded the future PSL concentration (2,100 $\mu\text{g}/\text{m}^3$) in one (AOC4-SV8-15) of the 41 samples, at 2,440 $\mu\text{g}/\text{m}^3$. Note that for benzene and naphthalene the non-detect values reported by the laboratory are the method detection limits; some of which exceed the future PSLs. No other VOCs were detected above their respective current PSLs. The analytical results are provided in **Table 4** and the soil vapor probe locations are presented on **Figure 3**.

3.3.2 VOCs in Sub-Slab Soil Vapor Pins

Three sub-slab soil vapor pins (AOC4-SS1 through AOC4-SS3) were installed prior to the supplemental assessment activities. For the supplemental assessment activities, sub-slab vapor pins AOC4-SS4 through AOC4-SS12 were installed inside the Industrial Arts buildings, to evaluate PCE beneath the foundation slab. The vapor pin locations are depicted on **Figure 3**.

Between September 19, 2018 and January 3, 2019, 23 sub-slab vapor pins were sampled for soil vapor, including duplicate samples. The vapor samples were analyzed by Jones Environmental,

Inc. PCE concentrations in the sub-slab vapor pins sampled between September 15, 2018 and January 3, 2019 ranged from 18 $\mu\text{g}/\text{m}^3$ (AOC4-SS10) to 1,300 $\mu\text{g}/\text{m}^3$ (AOC4-SS3).

On October 5, 2018 one vapor pin in each of the four Industrial Arts building classrooms was sampled while the building HVAC system was in normal operating mode, and the same four vapor pins were then sampled the following day (October 6) while the HVAC system was in non-operating (off) mode. The four vapor pins (AOC4-SS3, AOC4-SS5, AOC4-SS7, and AOC4-SS12) were chosen to be sampled based on the relatively higher PCE concentrations observed during previous sampling events. The PCE concentrations in the four vapor pins results from October 5, 2018 ranged from 4 $\mu\text{g}/\text{m}^3$ (AOC4-SS5) to 373 $\mu\text{g}/\text{m}^3$ (AOC4-SS3). The PCE concentrations in the four vapor pins results from October 6, 2018 ranged from 9 $\mu\text{g}/\text{m}^3$ (AOC4-SS7) to 374 $\mu\text{g}/\text{m}^3$ (AOC4-SS3). The PCE concentrations in the four vapor pins results from the January 3, 2019 event ranged from 42.6 $\mu\text{g}/\text{m}^3$ (AOC4-SS5) to 245 $\mu\text{g}/\text{m}^3$ (AOC4-SS3). There did not appear to be a discernable PCE concentration trend correlating with the HVACs operational mode. PCE exceeded the future RSL (15 $\mu\text{g}/\text{m}^3$) in 21 of the 23 sub-slab vapor pin samples during the vapor sampling events. Benzene did not exceed the future RSL (3.2 $\mu\text{g}/\text{m}^3$) in any of the vapor pins sampled during the supplemental sampling events. Note that some of the benzene reporting limits were above the future RSL. This is not considered a likely potential risk, based on the number of samples with benzene reported, and the overall benzene concentrations of the samples. The sub-slab vapor pin laboratory results are tabulated in **Table 5**.

3.3.3 VOCs in Indoor and Outdoor Air

Twenty-three (23) indoor air samples IAS-1 through IAS-4 and outdoor air samples OAS-1 through OAS-3, including two duplicates were sampled on October 5 and 6, 2018, and on January 3, 2019. Additionally, two underground utility tunnel air samples (UT-1 and UT-2) were sampled on January 3, 2019. The indoor air and outdoor air samples, including the underground utility tunnel air samples results are provided on **Table 6**.

The indoor and outdoor air samples were collected to compare against the soil vapor data collected simultaneously from the Industrial Art building classrooms.

PCE was not detected above the residential PSL (0.46 $\mu\text{g}/\text{m}^3$) in any of the 23 indoor, outdoor, or underground utility tunnel air samples collected on any of the three sample dates.

On October 5, 2018, when the HVAC system was in normal operating mode, benzene concentrations in the four indoor air samples ranged from 0.44 $\mu\text{g}/\text{m}^3$ to 0.46 $\mu\text{g}/\text{m}^3$. Benzene concentrations in the three outdoor air samples ranged from 0.38 $\mu\text{g}/\text{m}^3$ to 0.43 $\mu\text{g}/\text{m}^3$. The benzene PSL for residential air is 0.097 $\mu\text{g}/\text{m}^3$. The essentially equal concentrations of benzene reported in the indoor and outdoor air samples indicate that benzene is associated with ambient sources and is not migrating from beneath the building foundations and accumulating in indoor air when the HVAC system is operating.

On October 6, 2018, when the HVAC system was in non-operating (off) mode, benzene concentrations in the four indoor air samples ranged from 0.78 $\mu\text{g}/\text{m}^3$ to 1.06 $\mu\text{g}/\text{m}^3$. Benzene

concentrations in the three outdoor air samples ranged from $0.35 \mu\text{g}/\text{m}^3$ to $0.61 \mu\text{g}/\text{m}^3$. The concentrations of benzene reported in the indoor air is slightly higher than the benzene concentrations in outdoor air samples, which could indicate benzene is migrating from beneath the building foundations and accumulating in indoor air. The slight difference in the benzene results may also be attributed to natural air flow variability inside and outside the rooms. However, benzene was not detected above the reporting limit in the sub-slab soil vapor samples collected during the same sample events, indicating that benzene detected in the indoor air samples is unlikely to have migrated from beneath the building foundation into indoor.

On January 3, 2019, when the HVAC system was in normal operating mode, benzene concentrations in the four indoor air samples ranged from $1.34 \mu\text{g}/\text{m}^3$ (IAS-4) to $2.33 \mu\text{g}/\text{m}^3$ (IAS-1). Benzene concentrations in the three outdoor air samples ranged from $1.56 \mu\text{g}/\text{m}^3$ (OAS-3) to $1.85 \mu\text{g}/\text{m}^3$ (OAS-1). The essentially equal concentrations of benzene reported in the indoor and outdoor air samples indicate that benzene is associated with ambient sources is not migrating from beneath the building foundations and accumulating in indoor air.

3.4 DELINEATION OF IMPACTS IN SOIL

For the supplemental scope of work, soil samples were collected during the installation of soil vapor probes AOC4-SV14 through AOC4-SV17, at 5 and 15 ft bgs. VOCs were not detected above their respective reporting limits in soil samples collected from the four vapor probe locations. VOCs in soil are considered laterally delineated to the west of the Industrial Arts buildings by the lack VOC concentrations in AOC4-SV16, and to the north by AOC4-SV17. **Table 3** provides VOC data from the soil samples collected.

There were no GRO detections in the soil samples above laboratory reporting limits, and only one DRO detection (low, estimated value) ($3.5 \text{J mg}/\text{kg}$ in sample AOC4-SV17 at 5 ft bgs). There were no ORO detections above $10 \text{ mg}/\text{kg}$ in any of the soil samples analyzed. Note the San Francisco Regional Water Quality Control Board (2016) ORO screening level is $10,746 \text{ mg}/\text{kg}$. There were no PCB detections above their respective laboratory reporting limits in any of the soil samples collected from AOC4-SV14 through AOC4-SV17. Therefore, GRO, DRO and ORO (TPH) and PCBs are considered delineated to the west of the Industrial Arts buildings by the lack of TPH and PCB detections in AOC4-SV16, and to the north by AOC4-SV17. **Figure 3** depicts soil sampling locations.

The vertical extent of soil exceedances was defined by previous sampling (Parsons, 2018) and the 15 ft bgs sample analyses from soil vapor probes AOC4-SV14 through AOC4-SV17.

3.5 DELINEATION OF IMPACTS IN SOIL VAPOR

Based on the VOC results of soil vapor sample events between September 15, 2018 and January 3, 2019, the VOC-impacts in the Industrial Arts building area have been laterally delineated with respect to the overall soil vapor source. VOCs are considered delineated to the west of the Industrial Arts buildings by the relatively low VOC concentrations in AOC4-SV16 soil vapor, and

by the relatively low VOC concentrations in AOC4-SV17 soil vapor to the north. VOC concentrations are delineated by location AOC4-SV5 to the east. Soil vapor is delineated farthest south by soil vapor samples collected from AOC5-SV1 and AOC5-SV2. Soil vapor is not delineated at location AOC4-SV12 which south of the Industrial Arts building but north of the underground utility tunnel (**Figure 4**).

Naphthalene, ethylbenzene, and 1,2,4-trimethylbenzene were detected in soil vapor samples from probes AOC4-SV8 at 5 and 15 ft bgs during the September 15, 2018 event. Similar elevated concentrations of these compounds were not detected during the previous sample event (April 21, 2018) at AOC4-SV8 and have not been observed in any of the other soil vapor probes sampled during multiple events during the initial and supplemental scope of work. These two detections from the September 15, 2018 sample event are considered anomalous. **Table 4** provides the soil vapor probe sampling results and **Figure 3** provides the soil vapor sampling locations.

Specifically, PCE concentrations in soil vapor exceeded the future PSL ($15 \mu\text{g}/\text{m}^3$) at most of the soil vapor probes sampled during the supplemental scope of work. PCE concentrations in soil vapor were detected at or below the PSL in soil vapor probes AOC4-SV16 and AOC4-SV17, west and north of the Industrial Arts buildings. PCE in soil vapor at AOC4-SV5 east of the Industrial Arts buildings was at or below the future PSL. PCE in soil vapor at AOC4-SV12 south of the Industrial Arts buildings was below the current PSL but above the future PSL. The previously sampled AOC5-SV1 and AOC5-SV2 soil vapor probe data define VOCs to the south of the Industrial Arts buildings. **Figure 5** and **6** present iso-concentrations of PCE in the 5-ft bgs and 15-ft bgs soil vapor probes. To be conservative the highest detection was used at each probe location.

AOC4-SV14 and AOC4-SV15 were installed and sampled to correlate VOC concentrations in the shallow subsurface beneath the classrooms with VOCs in the nearby sub-slab vapor pin locations AOC4-SS6 and AOC4-SS9, respectively. VOCs are considered laterally delineated to the west of the Industrial Arts buildings by the lack VOC concentrations in AOC4-SV16, to the north by AOC4-SV17, and to the east by AOC4-SV5.

4.0 FIELD VARIANCES

Field conditions caused the following variances from the original scope of work:

- Sub-slab vapor pin AOC4-SS6 was unable to be purged or sampled due to no flow in the system.
- Soil vapor samples collected from locations AOC4-SV16 and AOC4-SV17 on October 9, 2018, were analyzed for VOCS by Method TO-15 which provided lower reporting and method detection limits compared to Method 8260.

5.0 HUMAN HEALTH SCREENING EVALUATION

This section presents the human health screening evaluation (HHSE) portion of the PEA-E. The HHSE evaluates potential impacts to human health from exposure to the chemicals detected in soil and soil vapor at the Site. Following the PEA Guidance Manual (DTSC, 2015a), the HHSE is performed within the context of a health risk assessment that addresses an unrestricted future residential land-use scenario, which is more health-protective than the existing and continued use of the Site as a school.

5.1 SOILS

Soil was sampled for PCBs (**Table 1**), TPH (**Table 2**), and VOCs (**Table 3**) during the supplemental investigation. All detections were below the PSLs. This indicates that potential future residential exposures to these chemicals in soils result in a residential risk estimate less than 1×10^{-6} and noncancer hazard quotient less than one, which is acceptable.

5.2 SOIL VAPOR/SUB-SLAB SOIL VAPOR/INDOOR AIR

In the soil vapor samples collected at the site, benzene, naphthalene, PCE, and 1,2,4-trimethylbenzene were detected at or above the future PSLs (see **Table 4**). Benzene, naphthalene, and PCE were also detected above the current PSLs. In the sub-slab soil vapor samples, only benzene and PCE were detected above the current and future PSLs (**Table 5**). In contrast, in both indoor and outdoor air, only benzene was detected above the PSLs (**Table 6**).

Benzene. Outside of the buildings at the site, benzene was detected above the future PSLs at 15-ft bgs at sample locations AOC4-SV8 and AOC4-SV12. However, benzene was not detected in the 5-ft bgs sample at the same locations. This likely indicates that benzene is degrading as it migrates through the soil column and that benzene in soil vapor at AOC4-SV8 and AOC4-SV12 does not represent a potential risk. However, benzene was also detected above the future PSLs in three sub-slab soil vapor samples at up to 64 times the current PSL. It should be noted that using the default DTSC (2011) and USEPA (2015) sub-slab soil vapor attenuation factors, the maximum detected sub-slab soil vapor benzene concentration of $209 \mu\text{g}/\text{m}^3$ corresponds to indoor air concentrations of 10.45 and $6.27 \mu\text{g}/\text{m}^3$, respectively. This is not substantially greater than the ambient concentrations at the two nearest Air Resources Board monitoring stations; i.e., Simi Valley (0.19 to $1.371 \mu\text{g}/\text{m}^3$ for 2017) and Burbank (0.50 to $4.79 \mu\text{g}/\text{m}^3$ for 2013). Lastly, it should be noted that benzene was measured in indoor and outdoor air in three separate sampling events at the site. In two events, benzene concentrations were roughly equivalent in the indoor and outdoor air samples but were not detected in the sub-slab samples. In the third event, benzene was slightly higher in the indoor air samples than in the outdoor air samples but was not detected in the sub-slab samples. Overall, benzene in soil vapor and sub-slab soil vapor at the Site does exceed the

future PSLs, but the concentrations of benzene in indoor air and outdoor air appear to be relatively similar, indicating that benzene does not represent a potential vapor intrusion issue.

Naphthalene. As stated in Section 3.5, the detection of naphthalene above the future PSLs in AOC4-SV8 is considered anomalous and is not evaluated in this risk assessment. Naphthalene also exceeded the future PSLs (but not current) at AOC4-SV16 and AOC4-SV17 at 5 and 15 ft bgs in the samples collected on October 9, 2018. However, naphthalene was also not detected in same probes in the samples collected on January 3, 2019. The detections in October 2018 were only slightly above the detection limits in January 2019; i.e., 3.0 to 4.0 $\mu\text{g}/\text{m}^3$ vs. 2.0 $\mu\text{g}/\text{m}^3$. Thus, naphthalene may have been present below the detection limit in the January 2019 samples. Using the future attenuation factors, these soil gas concentrations result in estimated indoor air concentrations of 0.09 to 0.12 $\mu\text{g}/\text{m}^3$ and a risk of approximately 1×10^{-6} for residential receptors. While the indoor and outdoor air samples were not analyzed for naphthalene, ambient concentrations in central Los Angeles, Rubidoux, and North Long Beach ranged from 0.03 to 0.73 $\mu\text{g}/\text{m}^3$ in 2003 to 2004 (SCAQMD 2008). As this ambient range exceeds the predicted indoor air concentrations, naphthalene in soil gas at the Site would not likely result in indoor air concentrations above ambient conditions and does not represent a potential vapor intrusion issue.

1,2,4-Trimethylbenzene. As stated in Section 3.5, the one detection of 1,2,4-trimethylbenzene above the future PSLs is considered anomalous and is not evaluated in this risk assessment.

Tetrachloroethene (PCE). In the sub-slab soil vapor samples, PCE was detected at up to 1,300 $\mu\text{g}/\text{m}^3$, which is 85 times the current (and more conservative) PSL. In the soil vapor probes installed outside of the buildings, PCE was detected at up to 1,440 $\mu\text{g}/\text{m}^3$, which is three times the current PSL but 94 times the future PSL. Using the default DTSC (2011) and USEPA (2015) sub-slab soil vapor attenuation factors, the maximum detected sub-slab soil vapor concentration of 1,300 $\mu\text{g}/\text{m}^3$ corresponds to indoor air concentrations of 65 and 39 $\mu\text{g}/\text{m}^3$, respectively. These concentrations are substantially greater than the ambient concentrations at the two nearest Air Resources Board monitoring stations; i.e., Simi Valley (0.034 to 0.20 $\mu\text{g}/\text{m}^3$ for 2017) and Burbank (0.14 to 1.15 $\mu\text{g}/\text{m}^3$ for 2013). Due to the potential risks from PCE, three indoor and outdoor air sampling events were conducted at the Site. While PCE was detected in almost all indoor air samples, all of the results were below the residential PSL, both with the HVAC system on and with it off. Thus, even under worst-case conditions (i.e., HVAC off, which reduces the dilution of indoor air with outdoor air), exposures to PCE in indoor air result in a residential risk estimate less than 1×10^{-6} and noncancer hazard quotient less than one, which is acceptable. It should be acknowledged, however, that while the current building appears to limit vapor intrusion by PCE, the concentrations are high enough in sub-slab soil gas that there is still a potential for concern if there is new building construction and the existing building is replaced.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

The following conclusions were derived from the supplemental investigation conducted at Reseda High School for soil, soil vapor and indoor air. Previous recommendations regarding the presence of lead and arsenic in soil above their respective PSLs are documented in the PEA-E Report (Parsons, 2018a).

Soil

- Soil was sampled for PCBs, TPH, and VOCs during the supplemental investigation in AOC4. There were no detections above the PSLs, which is consistent with the original investigation results (Parsons, 2018a). Therefore, PCBs, TPH, and VOCs are not considered COCs in soil.

Soil Vapor

- A total of 41 soil vapor samples, including duplicates, were collected from selected soil vapor probes during the supplemental investigation on September 5 and 19, October 9, 2018 and January 3, 2019 to further characterize soil vapor concentrations in AOC4. Select probes were sampled in multiple events to provide additional data for decision-making purposes. LAUSD OEHS requested that the analytical data now be compared against the DTSC's future PSLs. PCE was detected above the future PSL ($15 \mu\text{g}/\text{m}^3$) at 31 sample (either 5 or 15 ft bgs) locations. In the 41 vapor samples, PCE concentrations ranged from $1.7 \mu\text{g}/\text{m}^3$ (AOC4-SV17-5) to $1,440 \mu\text{g}/\text{m}^3$ (AOC4-SV10-5). The future PSL for naphthalene is $2.8 \mu\text{g}/\text{m}^3$. Naphthalene exceeded the future PSL concentration in five of the 41 samples, ranging from $3.0 \mu\text{g}/\text{m}^3$ (AOC4-SV16-5) to $774 \mu\text{g}/\text{m}^3$ (AOC4-SV8-15). 1,2,4-trimethylbenzene exceeded the future PSL concentration ($2,100 \mu\text{g}/\text{m}^3$) in one (AOC4-SV8-15) of the 41 samples, at $2,440 \mu\text{g}/\text{m}^3$. Benzene exceeded the future PSL concentration ($3.2 \mu\text{g}/\text{m}^3$) in one (AOC4-SV8-15) of the 41 samples, at $7 \mu\text{g}/\text{m}^3$. Note that for benzene and naphthalene the non-detect values reported by the laboratory are the method detection limits; some of which exceed the future PSLs. No other VOCs were detected above their respective PSLs.
- Based on the multiple soil vapor sampling events from previously installed and more recently installed soil vapor probes, vapor-phase VOCs are considered laterally delineated but not vertically delineated (**Figures 5 and 6**). VOCs, including PCE (the most prevalent compound of concern), was detected above the future PSLs in soil vapor at 5- and 15-ft bgs at probe locations in many of the previously installed soil vapor probe locations (AOC4-SV1 through AOC4-SV13) and in the soil vapor probe locations AOC4-SV13 through AOC4-SV15 installed for the supplemental investigation.
- Several soil vapor probes had reported concentrations of naphthalene and 1,2,4-trimethylbenzene above their respective future PSL. As discussed in Section 3.5, these

two compounds have not been observed in any of the other soil vapor probes sampled during multiple events during the initial and supplemental scope of work. Given the sporadic and isolated nature of these detections they are not considered Site COCs.

- On September 15 and 19, 2018, 12 sub-slab vapor pins were sampled for soil vapor. PCE concentrations in the sub-slab vapor pins sampled on September 15 and 19, 2018 ranged from 18 $\mu\text{g}/\text{m}^3$ (AOC4-SS10) to 1,300 $\mu\text{g}/\text{m}^3$ (AOC4-SS-3). Based on PCE concentrations exceeding the sub-slab PSLs, indoor and outdoor air sampling was conducted to further assess vapor intrusion potential to indoor air.
- Benzene was detected at concentrations above the future PSLs at various soil vapor probes and sub-slab probes during the initial investigation (May 2018 event). Subsequent sampling of these and additional probes conducted during supplemental investigation did not confirm the continued presence of benzene in soil vapor probes and sub-slab probes. Based on the benzene detections during the initial investigation it is considered a Site COC.

Indoor Air

During the supplemental investigation, three indoor and outdoor air sampling events were conducted using Summa canisters. For each event, three outdoor air samples and four indoor air samples were collected. These samples were collected concurrent with selected sub-slab vapor pins to help interpret the origin of any indoor air VOC detections.

- PCE was not detected above the residential PSL (0.46 $\mu\text{g}/\text{m}^3$) in any of the 23 indoor, outdoor, or underground utility tunnel air samples collected on any of the three sample dates. Low concentrations of PCE were detected with the HVAC system on and with it off. Thus, even under worst-case conditions (i.e., HVAC off, which reduces the dilution of indoor air with outdoor air), exposures to PCE in indoor air result in a residential risk estimate less than 1×10^{-6} and noncancer hazard quotient less than one, which is acceptable. Although PCE concentrations are below the PSL in indoor air, the sub-slab concentrations are high enough that there is still a potential for concern if the existing building is replaced by a new building.
- As discussed in Section 5.2, benzene in soil vapor and sub-slab soil vapor at the Site does exceed the future PSLs, but the concentrations of benzene in indoor air and outdoor air appear to be relatively similar, indicating that benzene does not represent a potential vapor intrusion issue.

6.2 RECOMMENDATIONS

The following are recommendations based on the above conclusions:

- A Removal Action Workplan (RAW) should be developed for the Site to address PCE and benzene soil vapor impacts above the future PSLs, as well as to address previously identified (Parsons, 2018a) shallow soils impacted with lead and/or arsenic above their PSLs.

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TABLES

TABLE 1
ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
LAUSD Reseda High School Supplemental PEA Equivalent

Sample ID	Sample Collection Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Units		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
PSLs		4,100	200	170	230	230	240	240
AOC4-B1-5.0	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-B1-5.0 DUP	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-B2-5.0	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV6-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV6-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV8-5	3/26/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV8-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV9-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV9-15	3/26/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV9-15 DUP	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV10-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV10-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV11-5	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV11-15	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV12-5	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV12-15	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV13-5	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV13-15	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV13-15DUP	5/12/2018	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48
AOC4-SV14-5	9/10/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV14-15	9/10/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV15-5	9/10/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV15-15	9/10/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV15-15D	9/10/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV16-5	10/6/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV16-5D	10/6/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV16-15	10/6/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV17-5	10/6/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV17-15	10/6/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49

NOTES:

ug/kg - micrograms/ kilogram

PCBs = polychlorinated biphenyls analyzed by Environmental Protection Agency Method 8082

ND = not detected

J = estimated at the value given

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

TABLE 2
ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
LAUSD Reseda High School Supplemental PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	GRO (C4-C12)	DRO (C13-C22)	ORO (C23-C40)
Units			--	mg/kg	mg/kg	mg/kg
USEPA Test Method			--	8015M	8015M	8015M
SFB RWQCB ESL (human health)			--	429	255	12,033
AOC4-B1	AOC4-B1-5.0	12/22/2017	5	<0.4	<5.0	5.1
AOC4-B1	AOC4-B1-5.0 DUP	12/22/2017	5	<0.39	<5.0	5.3
AOC4-B2	AOC4-B2-5.0	12/22/2017	5	<0.4	<5.0	4.6J
AOC4-SV6	AOC4-SV6-5	3/26/2018	5	<0.4	<5.0	3.3JB
AOC4-SV6	AOC4-SV6-15	3/26/2018	15	<0.4	<5.0	5.1B
AOC4-SV8	AOC4-SV8-5	3/26/2018	5	<0.4	<4.9	21B
AOC4-SV8	AOC4-SV8-15	3/26/2018	15	<0.4	<4.9	5.4B
AOC4-SV9	AOC4-SV9-5	3/26/2018	5	<0.4	<5.0	3.2JB
AOC4-SV9	AOC4-SV9-15	3/26/2018	15	<0.4	<4.9	2.8JB
AOC4-SV9	AOC4-SV9-15 DUP	3/26/2018	15	<0.39	<4.9	<4.9
AOC4-SV10	AOC4-SV10-5	3/26/2018	5	<0.4	<4.9	3.6JB
AOC4-SV10	AOC4-SV10-15	3/26/2018	15	<0.4	<4.9	<4.9
AOC4-SV11	AOC4-SV11-5	5/12/2018	5	<0.4	<4.9	5.9
AOC4-SV11	AOC4-SV11-15	5/12/2018	15	<0.4	<4.9	3.2J
AOC4-SV12	AOC4-SV12-5	5/12/2018	5	<0.39	<4.9	4.8J
AOC4-SV12	AOC4-SV12-15	5/12/2018	15	<0.4	<5.0	3.7J
AOC4-SV13	AOC4-SV13-5	5/12/2018	5	<0.4	<4.9	2.4J
AOC4-SV13	AOC4-SV13-15	5/12/2018	15	<0.4	<5.0	2.5J
AOC4-SV13	AOC4-SV13-15DUP	5/12/2018	15	<0.39	<5.0	<5.0
AOC4-SV14	AOC4-SV14-5	9/10/2018	5	<0.4	<4.9	5.8B
AOC4-SV14	AOC4-SV14-15	9/10/2018	15	<0.4	<4.9	4.3J,B
AOC4-SV15	AOC4-SV15-5	9/10/2018	5	<0.4	<4.9	6.6B
AOC4-SV15	AOC4-SV15-15	9/10/2018	15	<0.4	<4.9	4.3J,B
AOC4-SV15	AOC4-SV15-15D	9/10/2018	15	<0.39	<4.9	4.0J,B
AOC4-SV16	AOC4-SV16-5	10/6/2018	5	<0.4	<5.0	4.3J
AOC4-SV16	AOC4-SV16-5D	10/6/2018	5	<0.4	<5.0	6.5
AOC4-SV16	AOC4-SV16-15	10/6/2018	15	<0.4	<5.0	3.2J
AOC4-SV17	AOC4-SV17-5	10/6/2018	5	<0.4	3.5J	10
AOC4-SV17	AOC4-SV17-15	10/6/2018	15	<0.4	<5.0	3.4J

NOTES:

mg/kg - miligrams/ kilogram

DRO = diesel range organics

TPH = total petroleum hydrocarbons

ORO = oil range organics

GRO = gasoline range organics

ND = not detected

Per DTSC (2015) guidance, concentrations are compared to SFRWQCB (2019) risk-based direct contact screening levels.

Total petroleum hydrocarbons analyzed by Environmental Protection Agency Method 8015M

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

B = Compound was found in the blank and sample.

TABLE 3
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
LAUSD Reseda High School Supplemental PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Benzene	2-Butanone	Ethylbenzene	Napthalene	PCE	Toluene	1,2,3-Trichlorobenzene	All Other VOCs
Units			ft bgs	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
USEPA Test Method			--	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
PSL			--	330	27,000,000	5,800	3,800	590	1,100,000	63,000	--
AOC4-B1	AOC4-B1-5.0	12/22/2017	5	1.8	ND<9.2	ND<1.8	ND<4.6	ND<1.8	2.0	ND<4.6	ND
AOC4-B1	AOC4-B1-5.0 DUP	12/22/2017	5	2.2	ND<8.9	0.94J	ND<4.4	ND<1.8	2.7	ND<4.4	ND
AOC4-B2	AOC4-B2-5.0	12/22/2017	5	2.5	ND<11	ND<2.2	ND<5.5	ND<2.2	2.0J	ND<5.5	ND
AOC4-SV6	AOC4-SV6-5.0	3/26/2018	5	3.2	ND<9.4	1.3J	ND<4.7	ND<1.9	3.9	ND<4.7	ND
AOC4-SV6	AOC4-SV6-15	3/26/2018	15	1.7J	ND<10	ND<2.1	ND<5.2	ND<2.1	1.5J	ND<5.2	ND
AOC4-SV8	AOC4-SV8-5	3/26/2018	5	1.6	ND<8.0	2.0	ND<4.0	ND<1.6	3.0	ND<4.0	ND
AOC4-SV8	AOC4-SV8-15	3/26/2018	15	1.7	5.9J	1.1J	ND<4.3	ND<1.7	2.3	ND<4.3	ND
AOC4-SV9	AOC4-SV9-5	3/26/2018	5	2.2	ND<8.7	<1.7	ND<4.3	ND<1.7	2.5	ND<4.3	ND
AOC4-SV9	AOC4-SV9-15	3/26/2018	15	1.0J	ND<8.3	ND<1.7	ND<4.2	ND<1.7	1.2J	ND<4.2	ND
AOC4-SV9	AOC4-SV9-15 DUP	3/26/2018	15	0.97J	ND<9.1	ND<1.8	ND<4.5	ND<1.8	ND<1.5	ND<4.5	ND
AOC4-SV10	AOC4-SV10-5	3/26/2018	5	2.3	6.1J	1.5J	1.7J	1.2J	2.9	0.97J	ND
AOC4-SV10	AOC4-SV10-15	3/26/2018	15	1.3J	ND<8.2	ND<1.6	ND<4.1	ND<1.6	1.2J	ND<4.1	ND
AOC4-SV11	AOC4-SV11-5	5/12/2018	5	ND<1.6	ND<8.1	ND<1.6	ND<4.1	ND<1.6	ND<1.6	ND<4.1	ND
AOC4-SV11	AOC4-SV11-15	5/12/2018	15	ND<1.6	ND<7.8	ND<1.6	ND<3.9	ND<1.6	ND<1.6	ND<3.9	ND
AOC4-SV12	AOC4-SV12-5	5/12/2018	5	ND<1.6	ND<8.1	ND<1.6	ND<4.0	ND<1.6	ND<1.6	ND<4.0	ND
AOC4-SV12	AOC4-SV12-15	5/12/2018	15	ND<1.6	ND<7.8	ND<1.6	ND<3.9	ND<1.6	ND<1.6	ND<3.9	ND
AOC4-SV13	AOC4-SV13-5	5/12/2018	5	ND<1.4	ND<7.1	ND<1.4	ND<3.6	ND<1.4	ND<1.4	ND<3.6	ND
AOC4-SV13	AOC4-SV13-15	5/12/2018	15	ND<1.5	ND<7.4	ND<1.5	ND<3.7	ND<1.5	ND<1.5	ND<3.7	ND
AOC4-SV13	AOC4-SV13-15DUP	5/12/2018	15	ND<1.4	ND<7.0	ND<1.4	ND<3.5	ND<1.4	ND<1.4	ND<3.5	ND
AOC4-SV14	AOC4-SV14-5	9/10/2018	5	ND<1.6	ND<8.2	ND<1.6	ND<4.1	ND<1.6	ND<1.6	ND<4.1	ND
AOC4-SV14	AOC4-SV14-15	9/10/2018	15	ND<1.5	ND<7.3	ND<1.5	ND<3.7	ND<1.5	ND<1.5	ND<3.7	ND
AOC4-SV15	AOC4-SV15-5	9/10/2018	5	ND<2.1	ND<10	ND<2.1	ND<5.1	ND<2.1	ND<2.1	ND<5.1	ND
AOC4-SV15	AOC4-SV15-15	9/10/2018	15	ND<1.5	ND<7.5	ND<1.5	ND<3.8	ND<1.5	ND<1.5	ND<3.8	ND
AOC4-SV15	AOC4-SV15-15D	9/10/2018	15	ND<1.7	ND<8.7	ND<1.7	ND<4.4	ND<1.7	ND<1.7	ND<4.4	ND
AOC4-SV16	AOC4-SV16-5	10/6/2018	5	ND<1.9	ND<9.3	ND<1.9	ND<4.7	ND<1.9	ND<1.9	ND<4.7	ND
AOC4-SV16	AOC4-SV16-5D	10/6/2018	5	ND<1.8	ND<9.2	ND<1.8	ND<4.6	ND<1.8	ND<1.8	ND<4.6	ND
AOC4-SV16	AOC4-SV16-15	10/6/2018	15	ND<1.7	ND<8.3	ND<1.7	ND<4.1	ND<1.7	ND<1.7	ND<4.1	ND
AOC4-SV17	AOC4-SV17-5	10/6/2018	5	ND<1.9	ND<9.4	ND<1.9	ND<4.7	ND<1.9	ND<1.9	ND<4.7	ND
AOC4-SV17	AOC4-SV17-15	10/6/2018	5	ND<1.8	ND<8.8	ND<1.8	ND<4.4	ND<1.8	ND<1.8	ND<4.4	ND

NOTES:
µg/kg - micrograms/ kilogram
Volatile organic compounds analyzed by Environmetnal Protection Agency Method 8260B
VOCs = Volatile organic compounds
PCE = tetrachloroethene
ND = not detected
PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

Table 4
Soil Vapor Probe Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	1,2,4-Trimethylbenzene	Napthalene	Tetrachloroethene (PCE)	Other VOCs
Units		ft	--	ug/m3	ug/m3	ug/m3	ug/m3	--
Current Preliminary Screening Level				97	63,000	83	460	--
Future Preliminary Screening Level				3.2	2,100	2.8	15	--
AOC4-SV1	AOC4-SV1-5	5	1/3/2018	ND<8.0	ND<8.0	ND<40	259	See Lab Report
	AOC4-SV1-15	15	1/3/2018	ND<8.0	ND<8.0	ND<40	322	See Lab Report
	AOC4-SV1-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	226	See Lab Report
	AOC4-SV1-5 REP	5	2/27/2018	ND<8.0	ND<8.0	ND<40	195	See Lab Report
	AOC4-SV1-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	257	See Lab Report
	AOC4-SV1-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	252	See Lab Report
	AOC4-SV1-15	15	4/21/2018	ND<8.0	10	ND<40	294	See Lab Report
	AOC4-SV1-5	5	9/15/2018	ND<2	ND<7	ND<8	289	See Lab Report
	AOC4-SV1-15	15	9/15/2018	ND<2	ND<7	ND<8	292	See Lab Report
AOC4-SV2	AOC4-SV1-15REP	15	9/15/2018	ND<2	ND<7	ND<8	302	See Lab Report
	AOC4-SV2-5	5	1/3/2018	ND<8.0	ND<8.0	ND<40	186	See Lab Report
	AOC4-SV2-5 REP	5	1/3/2018	ND<8.0	ND<8.0	ND<40	197	See Lab Report
	AOC4-SV2-15	15	1/3/2018	ND<8.0	ND<8.0	ND<40	173	See Lab Report
	AOC4-SV2-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	149	See Lab Report
AOC4-SV2	AOC4-SV2-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	125	See Lab Report
	AOC4-SV2-5	5	9/15/2018	ND<2	ND<7	ND<8	311	See Lab Report
	AOC4-SV2-15	15	9/15/2018	ND<2	ND<7	ND<8	151	See Lab Report
AOC4-SV3	AOC4-SV3-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	322	See Lab Report
	AOC4-SV3-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	448	See Lab Report
	AOC4-SV3-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	416	See Lab Report
	AOC4-SV3-5 REP	5	4/21/2018	ND<8.0	ND<8.0	ND<40	455	See Lab Report
	AOC4-SV3-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	489	See Lab Report
AOC4-SV3	AOC4-SV3-5	5	9/15/2018	ND<2	ND<7	ND<8	728	See Lab Report
	AOC4-SV3-15	15	9/15/2018	ND<2	ND<7	ND<8	491	See Lab Report
AOC4-SV4	AOC4-SV4-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	118	See Lab Report
	AOC4-SV4-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	179	See Lab Report
AOC4-SV5	AOC4-SV5-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	ND<8.0	See Lab Report
	AOC4-SV5-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	11	See Lab Report
AOC4-SV5	AOC4-SV5-5	5	1/3/2019	ND<8.0	ND<8.0	ND<40	15	See Lab Report
	AOC4-SV5-15	15	1/3/2019	ND<8.0	ND<8.0	ND<40	11	See Lab Report
AOC4-SV6	AOC4-SV6-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	93	See Lab Report
	AOC4-SV6-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	147	See Lab Report
AOC4-SV6	AOC4-SV6-5	5	9/15/2018	ND<2	8 J	ND<8	196	See Lab Report
	AOC4-SV6-15	15	9/15/2018	ND<2	ND<7	15 J	174	See Lab Report
AOC4-SV8	AOC4-SV8-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	265	See Lab Report
	AOC4-SV8-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	387	See Lab Report
AOC4-SV8	AOC4-SV8-5	5	9/15/2018	ND<2	378	199	494	See Lab Report
	AOC4-SV8-15	15	9/15/2018	7 J	2440	774	458	See Lab Report
AOC4-SV9	AOC4-SV9-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	144	See Lab Report
	AOC4-SV9-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	146	See Lab Report
	AOC4-SV9-15 REP	15	4/21/2018	ND<8.0	ND<8.0	ND<40	150	See Lab Report
AOC4-SV9	AOC4-SV9-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	844	See Lab Report
	AOC4-SV9-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	680	See Lab Report
AOC4-SV10	AOC4-SV10-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	473	See Lab Report
	AOC4-SV10-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	465	See Lab Report
AOC4-SV10	AOC4-SV10-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	1440	See Lab Report
	AOC4-SV10-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	1110	See Lab Report
	AOC4-SV10-15REP	15	9/19/2018	ND<8.0	ND<8.0	ND<40	1070	See Lab Report
	AOC4-SV10-5	5	1/3/2019	ND<8.0	ND<8.0	ND<40	481	See Lab Report
	AOC4-SV10-15	15	1/3/2019	ND<8.0	ND<8.0	ND<40	414	See Lab Report
AOC4-SV11	AOC4-SV11-5	5	5/22/2018	28	ND<8.0	ND<40	296	See Lab Report
	AOC4-SV11-15	15	5/22/2018	ND<8.0	ND<8.0	ND<40	292	See Lab Report
AOC4-SV11	AOC4-SV11-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	1080	See Lab Report
	AOC4-SV11-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	911	See Lab Report

Table 4
Soil Vapor Probe Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	1,2,4-Trimethylbenzene	Napthalene	Tetrachloroethene (PCE)	Other VOCs
Units		ft	--	ug/m3	ug/m3	ug/m3	ug/m3	--
Current Preliminary Screening Level				97	63,000	83	460	--
Future Preliminary Screening Level				3.2	2,100	2.8	15	--
AOC4-SV12	AOC4-SV12-5	5	5/22/2018	ND<8.0	ND<8.0	ND<40	105	See Lab Report
	AOC4-SV12-15	15	5/22/2018	98	ND<8.0	ND<40	183	See Lab Report
AOC4-SV12	AOC4-SV12-5	5	1/3/2019	ND<8.0	ND<8.0	ND<40	36	See Lab Report
	AOC4-SV12-15	15	1/3/2019	ND<8.0	ND<8.0	ND<40	167	See Lab Report
AOC4-SV13	AOC4-SV13-5	5	5/22/2018	16	ND<8.0	ND<40	17	See Lab Report
	AOC4-SV13-5REP	5	5/22/2018	12	ND<8.0	ND<40	18	See Lab Report
AOC4-SV13	AOC4-SV13-15	15	5/22/2018	ND<8.0	ND<8.0	ND<40	35	See Lab Report
	AOC4-SV13-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	551	See Lab Report
	AOC4-SV13-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	722	See Lab Report
AOC4-SV14	AOC4-SV14-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	947	See Lab Report
	AOC4-SV14-15	15	9/19/2018	ND<8.0	9.0	ND<40	984	See Lab Report
AOC4-SV15	AOC4-SV15-5	5	9/15/2018	ND<2	ND<7	ND<8	683	See Lab Report
	AOC4-SV15-5REP	5	9/15/2018	ND<2	ND<7	ND<8	676	See Lab Report
	AOC4-SV15-15	15	9/15/2018	ND<2	ND<7	ND<8	463	See Lab Report
AOC4-SV16	AOC4-SV16-5	5	10/9/2018	0.4 J	1.8	3.0	2.8	See Lab Report
	AOC4-SV16-15	15	10/9/2018	0.4 J	ND<0.2	3.8	9.7	See Lab Report
	AOC4-SV16-15DUP	15	10/9/2018	0.5 J	3.0	3.7	8.7	See Lab Report
	AOC4-SV16-5	5	1/3/2019	ND<4	ND<3	ND<2	9	See Lab Report
	AOC4-SV16-15	15	1/3/2019	ND<4	ND<3	ND<2	15	See Lab Report
	AOC4-SV16-15DUP	15	1/3/2019	ND<4	ND<3	ND<2	13	See Lab Report
AOC4-SV17	AOC4-SV17-5	5	10/9/2018	0.4 J	1.9	3.4	1.7	See Lab Report
	AOC4-SV17-15	15	10/9/2018	0.4 J	1.9	4.0	3.1	See Lab Report
	AOC4-SV17-5	5	1/3/2019	ND<4	ND<3	ND<2	5 J	See Lab Report
	AOC4-SV17-15	15	1/3/2019	ND<4	ND<3	ND<2	ND<4	See Lab Report

Value Exceeds Screening Level

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

Current PSL is residential air PSL divided by DTSC (2011) default attenuation factor of 0.001 for a future residential building

Future PSL is residential air PSL divided by USEPA (2015) default attenuation factor of 0.03

Table 5
Sub-Slab Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	m,p-Xylene	o-Xylene	Tetrachloroethene (PCE)	Toluene
Units		ft	--	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Current Preliminary Screening Level				1.9	2,000	2,000	9.2	6,200
Future Preliminary Screening Level				3.2	3,333	3,333	15	10,333
AOC4-SS1	AOC4-SS1	SS	5/22/2018	209	74	22	144	198
	AOC4-SS1	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	845	ND<8.0
AOC4-SS2	AOC4-SS2	SS	5/22/2018	38	ND<8.0	ND<8.0	446	45
	AOC4-SS2	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	1050	ND<8.0
AOC4-SS3	AOC4-SS3	SS	5/22/2018	80	ND<8.0	ND<8.0	523	62
	AOC4-SS3	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	1300	ND
	AOC4-SS3	SS	10/5/2018	ND<3.0	NR	NR	323	NR
	AOC4-SS3 REP	SS	10/5/2018	ND<3.0	NR	NR	373	NR
	AOC4-SS3	SS	10/6/2018	ND<3.0	NR	NR	374	NR
	AOC4-SS3	SS	1/3/2019	ND<1.0	NR	NR	245	NR
AOC4-SS4	AOC4-SS4	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	757	ND<8.0
AOC4-SS5	AOC4-SS5	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	866	ND<8.0
	AOC4-SS5	SS	10/5/2018	ND<3.0	NR	NR	4.0	NR
	AOC4-SS5	SS	10/6/2018	ND<3.0	NR	NR	19	NR
	AOC4-SS5	SS	1/3/2019	ND<1.0	NR	NR	42.6	NR
AOC4-SS6	AOC4-SS6	SS	9/19/2018	NS	NS	NS	NS	NS
AOC4-SS7	AOC4-SS7	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	1040	ND<8.0
	AOC4-SS7	SS	10/5/2018	ND<3.0	NR	NR	234	NR
	AOC4-SS7	SS	10/6/2018	ND<3.0	NR	NR	9.0*	NR
	AOC4-SS7	SS	1/3/2019	ND<1.0	NR	NR	122	NR
AOC4-SS8	AOC4-SS8	SS	9/15/2018	ND<2	ND<13	ND<8	566	ND<4
AOC4-SS9	AOC4-SS9	SS	9/15/2018	ND<2	ND<13	ND<8	438	ND<4
AOC4-SS10	AOC4-SS10	SS	9/15/2018	ND<2	ND<13	ND<8	18	ND<4
AOC4-SS11	AOC4-SS11	SS	9/15/2018	ND<2	ND<13	ND<8	73	ND<4
AOC4-SS12	AOC4-SS12	SS	9/15/2018	ND<8.0	ND	ND	109	ND<8.0
	AOC4-SS12	SS	10/5/2018	ND<3.0	NR	NR	89	NR
	AOC4-SS12	SS	10/6/2018	ND<3.0	NR	NR	127	NR
	AOC4-SS12	SS	1/3/2019	ND<1.0	NR	NR	79.6	NR
	AOC4-SS12 DUP	SS	1/3/2019	ND<1.0	NR	NR	85.2	NR

Value Exceeds Screening Level

Derivation of the screening levels is explained in text.

NS - unable to obtain sample due to no flow in probe

NR - analyte not reported.

* - tracer gas detected in sample

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

Current PSL is residential air PSL divided by DTSC (2011) default attenuation factor of 0.05 residential sub-slab samples

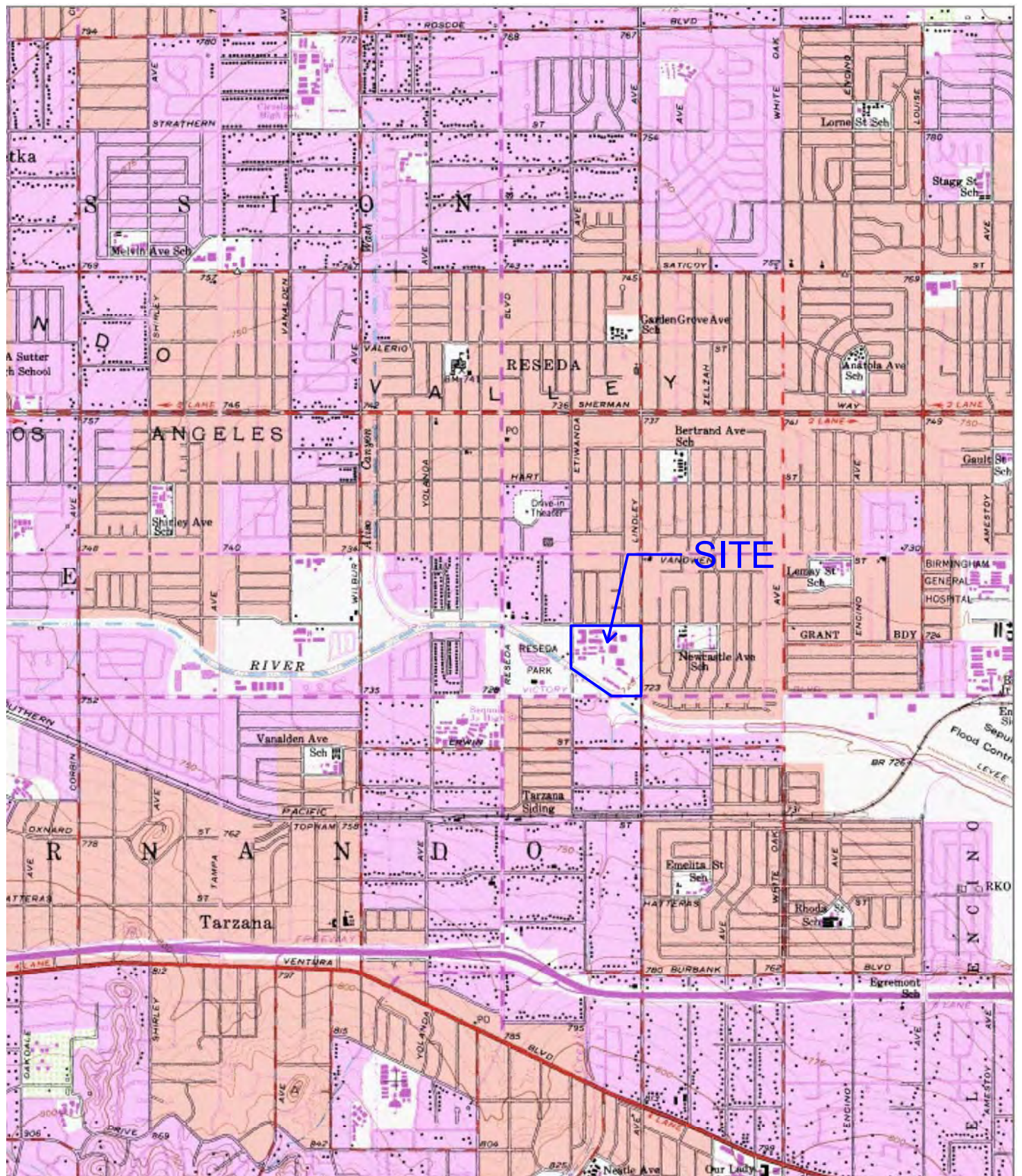
Future PSL is residential air PSL divided by USEPA (2015) default attenuation factor of 0.03

Table 6
Indoor/Outdoor Air Results
LAUSD Reseda High School Supplemental-PEA Equivalent

Sample Location	HVAC	Sample Date	Benzene	Tetrachloroethene (PCE)
Units		--	ug/m3	ug/m3
Residential PSL			0.097	0.46
Commercial/Industrial PSL			0.42	2.0
OAS-1	On	10/5/2018	0.38	0.13
	Off	10/6/2018	0.6	0.21
	On	1/3/2019	1.85	ND<0.10
OAS-2	On	10/5/2018	0.43	0.15
	Off	10/6/2018	0.61	0.20
	On	1/3/2019	1.59	ND<0.10
OAS-3	On	10/5/2018	0.42	0.15
	Off	10/6/2018	0.35	0.14
	On	1/3/2019	1.56	ND<0.10
IAS-1	On	10/5/2018	0.45	0.16
	Off	10/6/2018	0.96	0.25
	Off	10/6/2018	0.93	0.26
	On	1/3/2019	2.33	0.13
IAS-2	On	10/5/2018	0.44	0.22
	Off	10/6/2018	0.82	0.23
	On	1/3/2019	1.97	0.19
IAS-3	On	10/5/2018	0.46	0.3
	Off	10/6/2018	0.78	0.39
	On	1/3/2019	1.95	0.20
	On	1/3/2019	1.84	0.20
IAS-4	On	10/5/2018	0.44	0.15
	Off	10/6/2018	1.06	0.26
	On	1/3/2019	1.34	ND<0.10
UT-1		1/3/2019	2.20	0.12
UT-2		1/3/2019	2.04	0.11

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

FIGURES



 Site

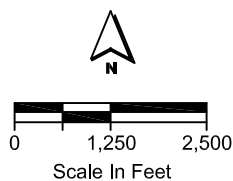


Figure 1
SITE LOCATION MAP

Reseda High School
18230 Kittridge Street
Reseda, California

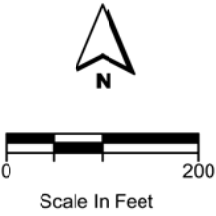
PARSONS

Pasadena, CA



LEGEND

- SITE BOUNDARY
- BUILDING TO BE REMOVED
- PORTABLE STRUCTURE TO BE REMOVED



**Figure 2
BUILDING LOCATIONS**

Reseda High School
18230 Kittridge Street
Reseda, California

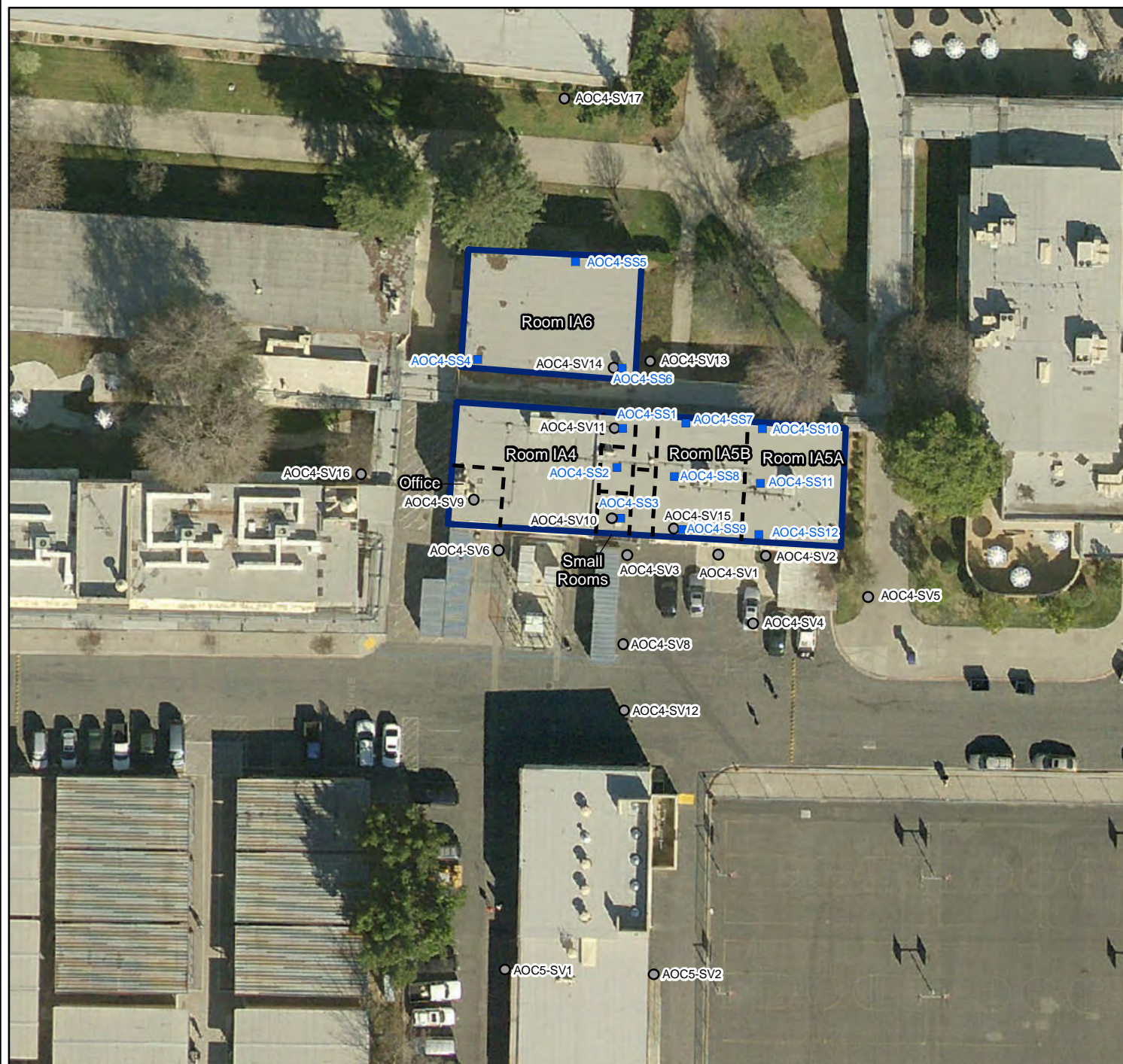
PARSONS
Pasadena, CA

Figure 3
SOIL VAPOR and SUB-SLAB
SAMPLING LOCATIONS

Reseda High School
 18230 Kittridge Street
 Reseda, California

LEGEND

- Sub-Slab Soil Vapor Sample Location
- Soil Vapor Sample Location
- - - Interior Wall
- Building Outline



PARSONS

Coordinate System:
 WGS 1984 UTM Zone 11N

25 0 25 50 Feet

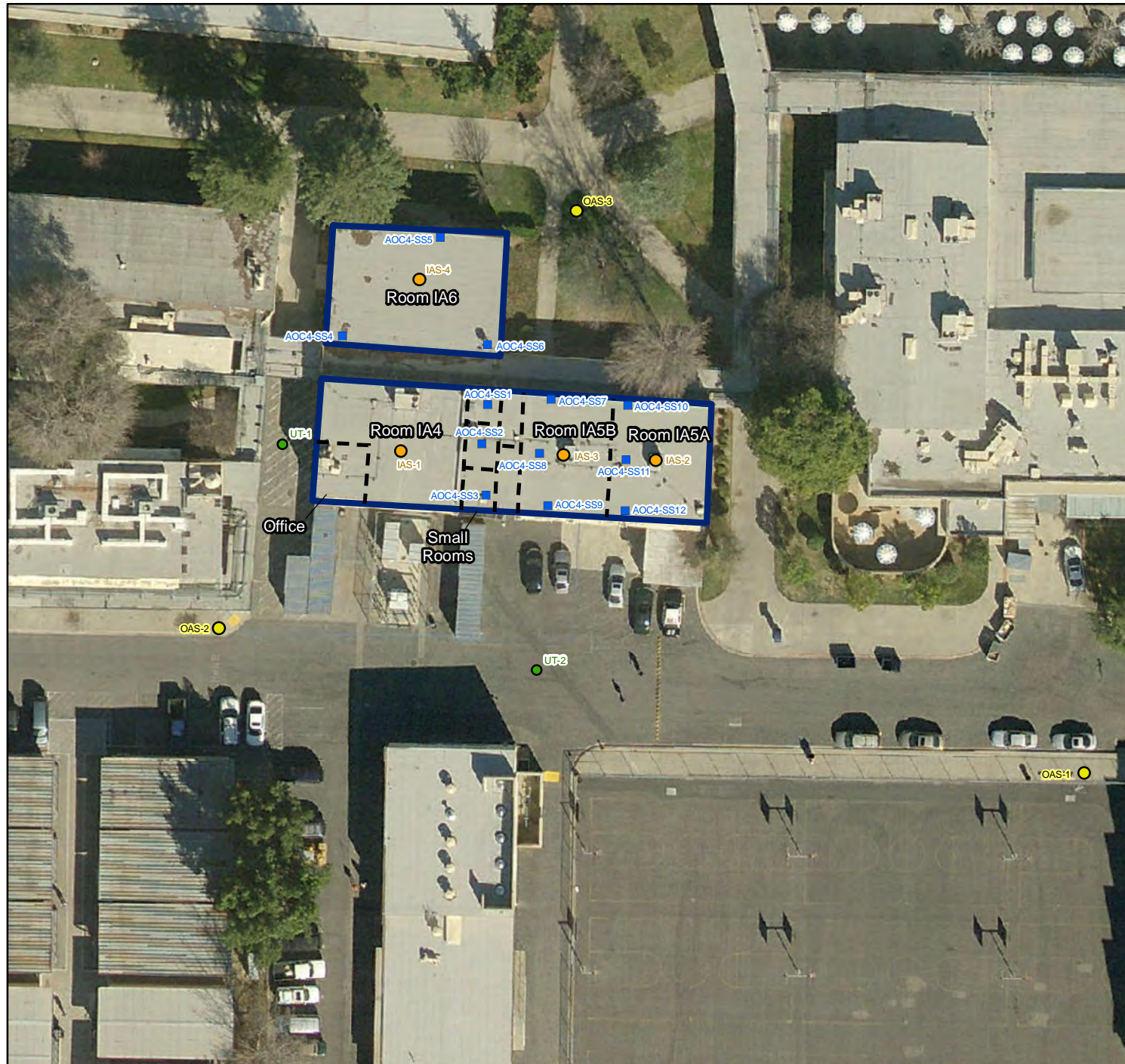


Figure 4
INDOOR/OUTDOOR AIR and
SUB-SLAB SAMPLING LOCATIONS

Reseda High School
 18230 Kittridge Street
 Reseda, California

LEGEND

- Sub-Slab Soil Vapor Sample Location
- Indoor Air Sampling Location
- Outdoor (Ambient) Air Sampling Location
- Underground Service Tunnel Air Sample Location
- - - Interior Wall
- Building Outline



PARSONS

Coordinate System:
 WGS 1984 UTM Zone 11N

25 0 25 50 Feet



Figure 5
TETRACHLOROETHENE
IN SOIL VAPOR AT 5 FT BGS
(January, 2019)

Reseda High School
 18230 Kittridge Street
 Reseda, California

LEGEND

- Soil Vapor Sample Location
- PCE Contour (100 ug/m³ contour interval)
- - Interior Wall
- ▭ Building Outline

NOTES:

NS = Not Sampled.
 ND = Non-detect at the indicated reporting limit.
 FT BGS = Feet Below Ground Surface
 J = Estimated value
 PCE units = ug/m³

PCE Screening Levels (ug/m³):

	Unrestricted/Residential	Industrial
Current	230	2,000
Future	15	67

The results for the following samples are from the indicated dates:

Sample Location	Sample Date
AOC4-SV1	9/15/2018
AOC4-SV2	9/15/2018
AOC4-SV3	9/15/2018
AOC4-SV4	2/27/2018
AOC4-SV5	1/3/2019
AOC4-SV6	9/15/2018
AOC4-SV8	9/15/2018
AOC4-SV9	9/19/2018
AOC4-SV10	9/19/2018
AOC4-SV11	9/19/2018
AOC4-SV12	5/22/2018
AOC4-SV13	9/19/2018
AOC4-SV14	9/19/2018
AOC4-SV15	9/19/2018
AOC4-SV16	1/3/2019
AOC4-SV17	1/3/2019
AOC5-SV1	1/3/2018
AOC5-SV2	1/3/2018

PARSONS

Coordinate System:
 WGS 1984 UTM Zone 11N

20 0 20 40 Feet

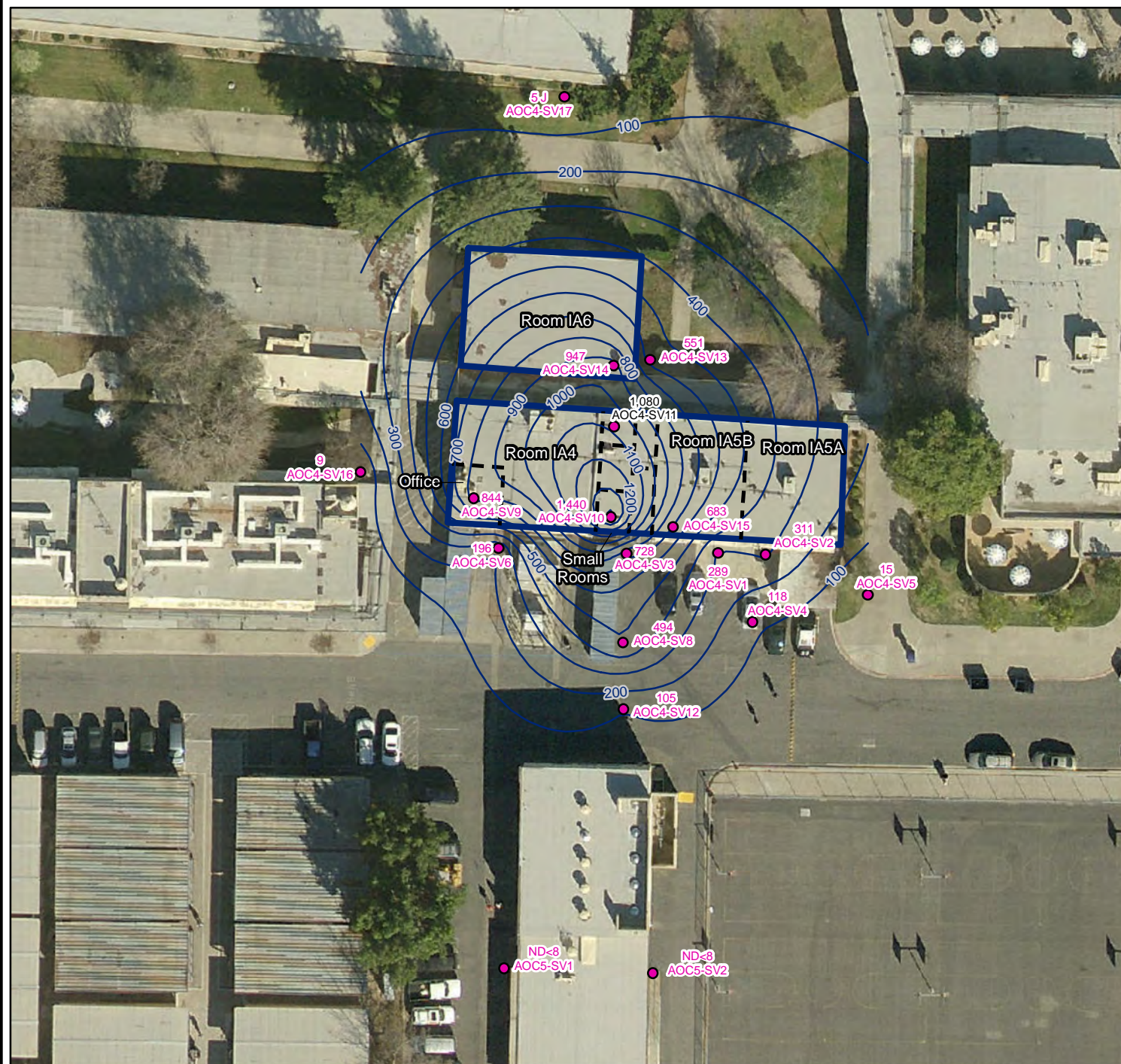


Figure 6
TETRACHLOROETHENE
IN SOIL VAPOR AT 15 FT BGS
(January, 2019)

Reseda High School
 18230 Kittridge Street
 Reseda, California

LEGEND

- Soil Vapor Sample Location
- PCE Contour (100 ug/m³ contour interval)
- - Interior Wall
- ▭ Building Outline

NOTES:

NS = Not Sampled.

ND = Non-detect at the indicated reporting limit.

FT BGS = Feet Below Ground Surface

PCE units = ug/m³

PCE Screening Levels (ug/m³):

	Unrestricted/Residential	Industrial
Current	230	2,000
Future	15	67

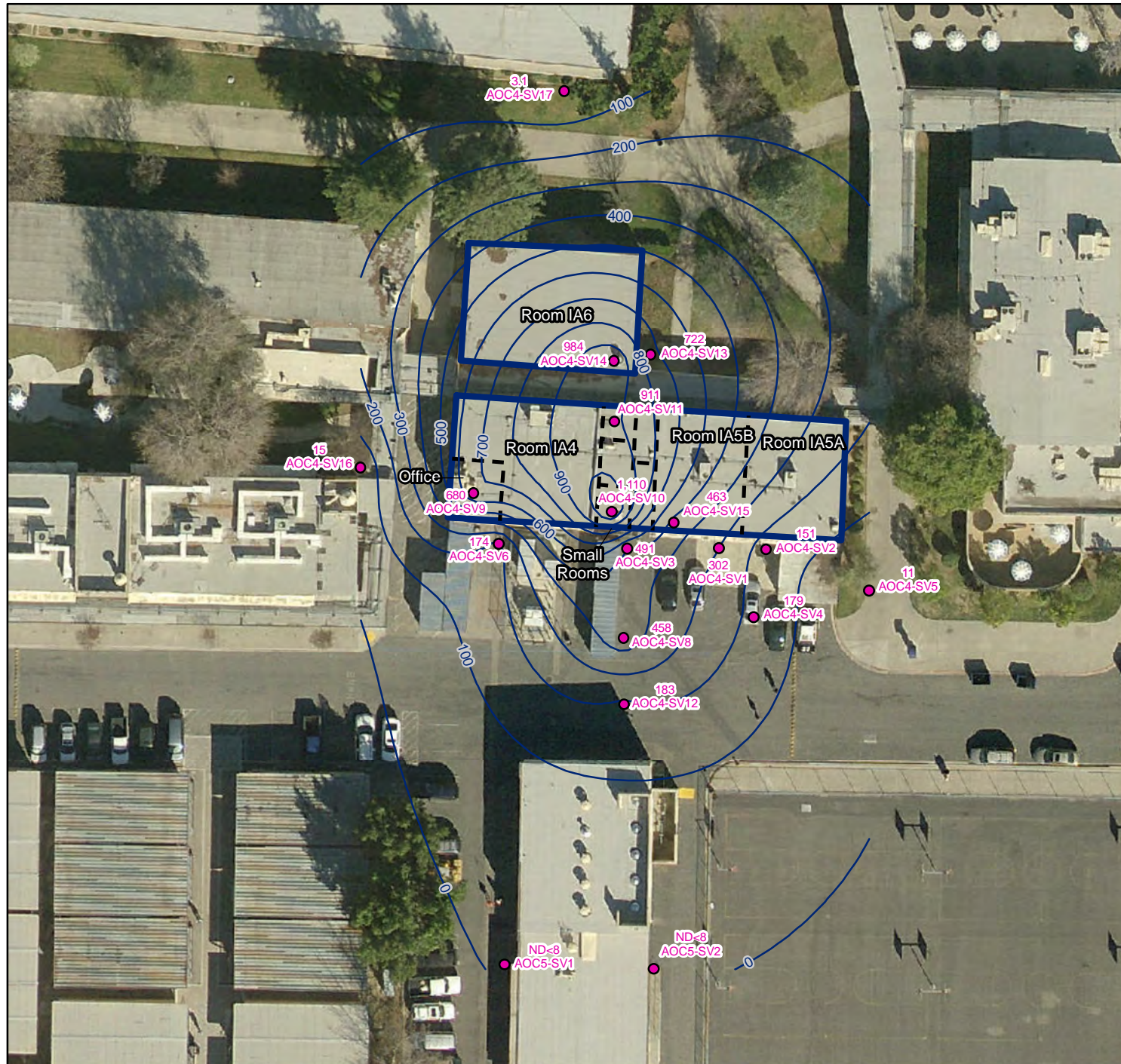
The results for the following samples are from the indicated dates:

Sample Location	Sample Date
AOC4-SV1	9/15/2018
AOC4-SV2	9/15/2018
AOC4-SV3	9/15/2018
AOC4-SV4	2/27/2018
AOC4-SV5	2/27/2018
AOC4-SV6	9/15/2018
AOC4-SV8	9/15/2018
AOC4-SV9	9/19/2018
AOC4-SV10	9/19/2018
AOC4-SV11	9/19/2018
AOC4-SV12	5/22/2018
AOC4-SV13	9/19/2018
AOC4-SV14	9/19/2018
AOC4-SV15	9/19/2018
AOC4-SV16	1/3/2019
AOC4-SV17	10/9/2018
AOC5-SV1	1/3/2018
AOC5-SV2	1/3/2018

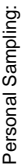
PARSONS

Coordinate System:
 WGS 1984 UTM Zone 11N

25 0 25 50 Feet



APPENDIX A

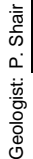


Reviewed By:

Datum:

Time 8:15AM	Time 3:00PM
----------------	----------------

Sample No. Sample Depth	Time	Sampler Blows	Inches Driven % Recovery	Instrument:			Depth in Feet	USCS Soil Type	Notes: 8-inches of concrete			9/10/18	9/10/18	
				Auger	Sample	Breathing Zone						Time 8:15AM	Time 3:00PM	
							0							
							1	AF	SAND, clean backfill, AF sand.					
							2							
							3							
							4							
							5							
					X		6	ML	Clayey SILT, dark yellowish brown (10YR 3/6), moderately loose, moist.					
							7							
							8							
							9		Same as above, brown (10YR 4/3), 15-20% fine grained sand.					
							10							
							11							
							12							
							13		Same as above, increasing clay.					
							14		CL	Silty CLAY, dark yellowish brown (10YR 3/4), medium plasticity when wet, moist.				
							15							
					X		16	TD						
							17							
							18							
							19							
							20							



Type of Instrument/Serial No.

Sample Container:

Personal Sampling:

See Figure 3

Job No.450810

Client/Site: LAUSD

Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling

Boring/Well Number	AOC4-SV16
--------------------	-----------

Drilling Method: Hand auger

Sheet

1 of 1

Weather Conditions: Sunny/Dry

Surface Conditions:	dirt
---------------------	------

Start

Finish

Datum:

Date _____

Date _____

10/6/18

10/6/18

Time

Time

Notes:

TD

Sandy SILT, brown, fine grained sand, moist, dense, caliche.

APPENDIX B

Date 10/5/18

Time	Wind Direction	OAS-1 location	OAS-2 location	OAS-3 location
0700	NW @ 3 mph	As mapped	As mapped	As mapped
0800	NE @ 2 mph	As mapped	As mapped	As mapped.
0900	NW @ 2 mph	As mapped	Moved to corner of T44-SW	As mapped
1030	West @ 3 mph	As mapped	Same as north	As mapped
1100	West @ 3 mph	Moved 300 south, 100 E	Same as north	As mapped
1200	No change	No change	No change	No change
1230	SE @ 3 mph	No change	No change	No change
1330	SE SE @ 6 mph	No change	No change	No change

Date 10/6/18

Time	Wind Direction	OAS-1 location	OAS-2 location	OAS-3 location
0700	SE @ 2 mph	As located end of day 10/5	As located end of day 10/5	As located end of day 10/5
0800	SE @ 3 mph	same	same	same
0900	SE @ 3 mph	same	same	same
1000	SW @ 2 mph	same	same	same
1100	SW @ 5 mph	same	same	same
1200	SW @ 5 mph	same	same	same
1300	SW @ 8 mph	same	same	same
1400	SW @ 8 mph	same	same	same

Date 1-3-18

Time	Wind Direction	OAS-1 location	OAS-2 location	OAS-3 location
0700	3 mph N:NE	As mapped	corner of IAH-SW	As mapped
0800	4 mph N:NE	"	"	"
0900	3 mph S:SW	"	"	"
1000	4 mph W	"	"	"
1100	"	"	"	"
1200	5 mph W	"	"	"
1300	7 mph W	"	"	"
1400	3 mph W	"	"	"
1500	4 mph W	"	"	"

APPENDIX C

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 11/12/18	Responsible for Payment:	Transport Truck #: 133876	Facility #: A07	Approval Number: 48582	Load #: 10103
--------------------------------------	--------------------------	-------------------------------------	---------------------------	----------------------------------	-------------------------

Generator's Name and Billing Address: L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	Generator's Phone #: 213-241-3100	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): (name & address) LAUSD - RESEDA HIGH SCHOOL 18230 KITTRIDGE ST. RESEDA, CA 91335	Site Phone #:	
	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): (name & address) SOIL SAFE 12320 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001	
	Person to Contact: JOE PROVANSAL	
	FAX#: (760) 240-8004	

Transporter Name and Mailing Address: BELSHIRE 25871 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 208095	Transporter's Phone #: 949-460-5200	CARD00183013
	Person to Contact: LARRY MOOTHART	450847
	FAX#: 949-460-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20%-over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	001 DM	SO. 1	37706	37100	606
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20%-over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					36

List any exception to items listed above: _____ Scale Ticket # **1118309**

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/> Diana T Robinson	Signature and date: [Signature]	Month: 11 Day: 09 Year: 18
---	---	---

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Thomas Buch	Signature and date: [Signature]	Month: 11 Day: 09 Year: 18
--	---	---

Discrepancies:	
----------------	--

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above.	
Print or Type Name: 18230611 1936978 J. PROVANSAL	Signature and date: [Signature] 11-26-18

Please print or type.

TRANSPORTER COPY

APPENDIX D

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-4-18/06:30
Affiliation: Periso Phone Number: 310-804-5793

Occupant Information

Occupant Name: Rosebe Kennedy High School Room IA4 Interviewed: ☐ Yes ☒ No
Mailing Address: 18230 Kittredge St
City: Rosebe State: Ca Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☒)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☒ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☒ School

Building Characteristics

Approximate Building Age (years): 60 yrs Number of Stories: 1
Approximate Building Area (square feet): 2,425 2,000 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☒ Concrete Cracks ☒ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there smoking in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a hobby or craft area in the building?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe: _____
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Do any building occupants use solvents at work?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IA4
Address 18230 Kittredge St
City Reseda Room IA4
Field Investigator Justin Long Date 10-2-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0	Isopropyl Alcohol	Isopropyl Alcohol
0.0	Behr Deep Base	unlisted
0.0	Windex	non listed
0.0	Honey Citrus: Shea Butter	non listed
0.0	Uni-Kleen Floor and Wall Cleaner	Presort non listed
0.0	Liquid Hand Soap	none listed
0.0	NRA Match Grade Pellets	
0.0	Diabdo Basic Pellets	
0.0	Home Select Finish Polish	

Comments:

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-2-18 / 1130
Affiliation: _____ Phone Number: 310-804-5703

Occupant Information

Occupant Name: Room IAS# Interviewed: ☒ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☐)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☒ School

Building Characteristics

Approximate Building Age (years): _____ Number of Stories: _____
Approximate Building Area (square feet): _____ Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☒ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there smoking in the building?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a hobby or craft area in the building?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: _____
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: _____
Do any building occupants use solvents at work?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: _____

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IASA

Address 18230 Kittredge St

City Reseda

Field Investigator Justin K. Date 10-2-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
	<u>no products in room</u>	

Comments:

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-4-18 / 0630
Affiliation: Parsons Phone Number: 310-801-5705

Occupant Information

Occupant Name: Reseda High School Room IA5B Interviewed: ☐ Yes ☒ No
Mailing Address: 18230 Kittridge St
City: Reseda State: Ca Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☒)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☒ School

Building Characteristics

Approximate Building Age (years): 60 yrs Number of Stories: 1
Approximate Building Area (square feet): 1,500 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there smoking in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a hobby or craft area in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Do any building occupants use solvents at work?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room JASB
Address 18230 Kittredge St
City Reseda
Field Investigator Justin King Date 10-2-16

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0	Ghostly Fog Solution	none listed
0	Elmers glue	none listed
0	Elmers no wrinkle rubber cement	n-heptane
0	Helmolin Clear Glass	Acetone, propane butane, hydrocarbon solvents
0	Boardwalk Heavy Duty glass cleaner	propane, Ethylene glycol butyl ether, Ethanol, n-butane
0	Old English Furniture Polish	none listed
0	Pledge	none listed
0	40a	none listed
0	Haggerty Silver Foam	none listed
0	Boardwalk Disinfecting Wipes	none listed
0	Rustolium multipurpose paint	:
0	Toner Cartridges	none listed
0	Cunk Silicone spray	petroleum distillate, 2-butanol, xylene, Ethanol
0	Rubber Roller Cleaner (Martin Yale)	petroleum distillate (naphtha) 1-methoxy-2-propanol, Heptane glycol

Comments:

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-4-18
Affiliation: Person Phone Number: _____

Occupant Information

Occupant Name: Reseda High School Room IAG Interviewed: ☐ Yes ☒ No
Mailing Address: 18230 Attridge St
City: Reseda State: CA Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☒)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☒ School

Building Characteristics

Approximate Building Age (years): 60 yrs Number of Stories: 1
Approximate Building Area (square feet): 2400 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there smoking in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a hobby or craft area in the building?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe: <u>same room</u>
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Do any building occupants use solvents at work?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe: <u>same room</u>

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IAG

Address 18230 Kittredge St

City Reseda

Field Investigator Justin King Date 10-4-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
	Lysol Disinfectant Spray	None listed
	Hard water / Soil Test kits	None listed
	Phosphate test solution	-- "
	Clove oil	-- "
	Toluidine Blue Buffer Solution	-- "
	Bromobenzene container	Bromobenzene
	Pancreatin Enzyme	None listed
	Potassium Chromate	-- "
	Potassium Hydroxide	-- "
	Phosphate Buffer Solution	-- "
	Isopropyl Alcohol	
	Pepsin	None listed
	Benedict's Qualitative Solution	-- "
	Potassium Permanganate	-- "
	Nitric Acid	-- "
	Indophenol	-- "
	Hydrochloric Acid	-- "

Comments:

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IAGAddress 18230 Kirtledge StCity ResedaField Investigator Justin King Date 10/4/18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
	Glucose Standard	none listed
	Ink Eraser	" "
	Hydrogen Peroxide	" "
	Iodine Solution	" "
	Glycerol	
	Caroline Blue	none listed
	Carnoy Fixative	ethanol
	Calcium Sulfate	none listed
	Acetone	acetone
	Sulfuric Acid	none listed
	Chromatography Solvent	retrolean-ether Acetone-
	methanol	methanol
	Tris-Borate-EDTA	Tris-hydroxyethylene-amine
	Ethanol	Ethanol
	Butanol	Butanol

Comments:

APPENDIX E

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-219730-1

Client Project/Site: LAUSD Reseda H.S., CA

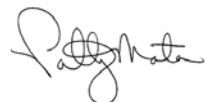
For:

Parsons Corporation

100 W Walnut Street

Pasadena, California 91124

Attn: Justin King



Authorized for release by:

9/18/2018 4:07:57 PM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

LINKS

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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	5
Client Sample Results	6
Surrogate Summary	18
Method Summary	21
Lab Chronicle	22
QC Sample Results	24
QC Association Summary	42
Definitions/Glossary	45
Certification Summary	46
Chain of Custody	47
Receipt Checklists	48



Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-219730-1	AOC4-SV15-5	Solid	09/10/18 08:10	09/10/18 13:20
440-219730-2	AOC4-SV15-15	Solid	09/10/18 09:15	09/10/18 13:20
440-219730-3	AOC4-SV15-15D	Solid	09/10/18 09:15	09/10/18 13:20
440-219730-4	AOC4-SV14-5	Solid	09/10/18 08:30	09/10/18 13:20
440-219730-5	AOC4-SV14-15	Solid	09/10/18 11:00	09/10/18 13:20
440-219730-6	EB-1	Water	09/10/18 10:30	09/10/18 13:20

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Job ID: 440-219730-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-219730-1

Comments

No additional comments.

Receipt

The samples were received on 9/10/2018 1:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

Receipt Exceptions

TB (440-219730-7) was listed on COC but was crossed out. The lab did receive this sample, and logged it in as Hold.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-498992 recovered outside control limits for Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have 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 recoveries for the following samples were outside control limits: AOC4-SV14-5 (440-219730-4) and AOC4-SV14-15 (440-219730-5). Re-analysis was performed with concurring results. The re-analysis results have been reported.

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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-498584 and analytical batch 440-498686. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

Method(s) 8015B: The method blank for preparation batch 440-498978 and analytical batch 440-499059 contained C23-C40 above the method detection limit (MDL). 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

No 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.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-5

Lab Sample ID: 440-219730-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	6.6	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV15-15

Lab Sample ID: 440-219730-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.3	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV15-15D

Lab Sample ID: 440-219730-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.0	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV14-5

Lab Sample ID: 440-219730-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	5.8	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV14-15

Lab Sample ID: 440-219730-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.3	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: EB-1

Lab Sample ID: 440-219730-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.28	J	0.50	0.25	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-5

Lab Sample ID: 440-219730-1

Date Collected: 09/10/18 08:10

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromobenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromochloromethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromodichloromethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromoform	ND	*	5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
2-Butanone (MEK)	ND		10	5.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Carbon tetrachloride	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chloroethane	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chloroform	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chloromethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
2-Chlorotoluene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
4-Chlorotoluene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
cis-1,2-Dichloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
cis-1,3-Dichloropropene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Dibromochloromethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dibromoethane (EDB)	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Dibromomethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dichlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,3-Dichlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,4-Dichlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Dichlorodifluoromethane	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1-Dichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1-Dichloroethene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dichloropropane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,3-Dichloropropane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1-Dichloropropene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Ethylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Hexachlorobutadiene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Isopropylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Methylene Chloride	ND		2.1	5.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
m,p-Xylene	ND		4.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Naphthalene	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
n-Butylbenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
N-Propylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
o-Xylene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
p-Isopropyltoluene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
sec-Butylbenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Styrene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
tert-Butylbenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,1,2-Tetrachloroethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Tetrachloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Toluene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
trans-1,2-Dichloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-5

Lab Sample ID: 440-219730-1

Date Collected: 09/10/18 08:10

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,3-Trichlorobenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,1-Trichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,2-Trichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Trichloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Trichlorofluoromethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Vinyl chloride	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		79 - 120	09/10/18 14:26	09/14/18 11:39	1
Dibromofluoromethane (Surr)	115		60 - 120	09/10/18 14:26	09/14/18 11:39	1
Toluene-d8 (Surr)	103		79 - 123	09/10/18 14:26	09/14/18 11:39	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	-		09/14/18 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		65 - 140					09/14/18 14:55	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 13:18	1
ORO (C23-C40)	6.6	B	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	59		40 - 140				09/14/18 06:01	09/14/18 13:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1221	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1232	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1242	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1248	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1254	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1260	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	56		45 - 120				09/14/18 06:16	09/17/18 14:35	

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-15

Lab Sample ID: 440-219730-2

Date Collected: 09/10/18 09:15

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromobenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromochloromethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromodichloromethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromoform	ND	*	3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
2-Butanone (MEK)	ND		7.5	3.8	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Carbon tetrachloride	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chloroethane	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chloroform	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chloromethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
2-Chlorotoluene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
4-Chlorotoluene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
cis-1,2-Dichloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
cis-1,3-Dichloropropene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Dibromochloromethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Dibromomethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dichlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,3-Dichlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,4-Dichlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Dichlorodifluoromethane	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1-Dichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1-Dichloroethene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dichloropropane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,3-Dichloropropane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1-Dichloropropene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Ethylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Hexachlorobutadiene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Isopropylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Methylene Chloride	ND		15	3.8	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Methyl-t-Butyl Ether (MTBE)	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
m,p-Xylene	ND		3.0	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Naphthalene	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
n-Butylbenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
N-Propylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
o-Xylene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
p-Isopropyltoluene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
sec-Butylbenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Styrene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
tert-Butylbenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,1,2-Tetrachloroethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Tetrachloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Toluene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
trans-1,2-Dichloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-15

Lab Sample ID: 440-219730-2

Date Collected: 09/10/18 09:15

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,3-Trichlorobenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,4-Trichlorobenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,1-Trichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,2-Trichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Trichloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Trichlorofluoromethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Vinyl chloride	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		79 - 120	09/10/18 14:26	09/14/18 12:03	1
Dibromofluoromethane (Surr)	113		60 - 120	09/10/18 14:26	09/14/18 12:03	1
Toluene-d8 (Surr)	102		79 - 123	09/10/18 14:26	09/14/18 12:03	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			09/14/18 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		65 - 140		09/14/18 15:23	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:38	1
ORO (C23-C40)	4.3	J B	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	64		40 - 140	09/14/18 06:01	09/14/18 16:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1221	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1232	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1242	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1248	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1254	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1260	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		45 - 120	09/14/18 06:16	09/17/18 14:48	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-15D

Lab Sample ID: 440-219730-3

Date Collected: 09/10/18 09:15

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromobenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromochloromethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromodichloromethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromoform	ND	*	4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
2-Butanone (MEK)	ND		8.7	4.4	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Carbon tetrachloride	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chloroethane	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chloroform	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chloromethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
2-Chlorotoluene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
4-Chlorotoluene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
cis-1,2-Dichloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
cis-1,3-Dichloropropene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Dibromochloromethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dibromoethane (EDB)	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Dibromomethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dichlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,3-Dichlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,4-Dichlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Dichlorodifluoromethane	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1-Dichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1-Dichloroethene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dichloropropane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,3-Dichloropropane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1-Dichloropropene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Ethylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Hexachlorobutadiene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Isopropylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Methylene Chloride	ND		17	4.4	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Methyl-t-Butyl Ether (MTBE)	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
m,p-Xylene	ND		3.5	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Naphthalene	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
n-Butylbenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
N-Propylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
o-Xylene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
p-Isopropyltoluene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
sec-Butylbenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Styrene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
tert-Butylbenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Tetrachloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Toluene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
trans-1,2-Dichloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-15D

Lab Sample ID: 440-219730-3

Date Collected: 09/10/18 09:15

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,3-Trichlorobenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,4-Trichlorobenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,1-Trichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,2-Trichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Trichloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Trichlorofluoromethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Vinyl chloride	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		79 - 120	09/10/18 14:26	09/14/18 12:27	1
Dibromofluoromethane (Surr)	115		60 - 120	09/10/18 14:26	09/14/18 12:27	1
Toluene-d8 (Surr)	100		79 - 123	09/10/18 14:26	09/14/18 12:27	1

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			09/14/18 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		65 - 140		09/14/18 15:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:16	1
ORO (C23-C40)	4.0	J B	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	66		40 - 140	09/14/18 06:01	09/14/18 16:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1221	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1232	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1242	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1248	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1254	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1260	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	46		45 - 120	09/14/18 06:16	09/17/18 15:02	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-5

Lab Sample ID: 440-219730-4

Date Collected: 09/10/18 08:30

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromobenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromochloromethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromodichloromethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromoform	ND	*	4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
2-Butanone (MEK)	ND		8.2	4.1	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Carbon tetrachloride	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chloroethane	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chloroform	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chloromethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
2-Chlorotoluene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
4-Chlorotoluene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
cis-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
cis-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Dibromochloromethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dibromoethane (EDB)	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Dibromomethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dichlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,3-Dichlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,4-Dichlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Dichlorodifluoromethane	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1-Dichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1-Dichloroethene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dichloropropane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,3-Dichloropropane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1-Dichloropropene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Ethylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Hexachlorobutadiene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Isopropylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Methylene Chloride	ND		16	4.1	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
m,p-Xylene	ND		3.3	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Naphthalene	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
n-Butylbenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
N-Propylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
o-Xylene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
p-Isopropyltoluene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
sec-Butylbenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Styrene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
tert-Butylbenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Tetrachloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Toluene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
trans-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-5

Lab Sample ID: 440-219730-4

Date Collected: 09/10/18 08:30

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,3-Trichlorobenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,2-Trichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Trichloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Trichlorofluoromethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Vinyl chloride	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		79 - 120	09/10/18 14:26	09/14/18 12:51	1
Dibromofluoromethane (Surr)	116		60 - 120	09/10/18 14:26	09/14/18 12:51	1
Toluene-d8 (Surr)	103		79 - 123	09/10/18 14:26	09/14/18 12:51	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			09/14/18 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	39	X	65 - 140		09/14/18 16:21	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:22	1
ORO (C23-C40)	5.8	B	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	71		40 - 140	09/14/18 06:01	09/14/18 17:22	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1221	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1232	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1242	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1248	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1254	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1260	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	49		45 - 120	09/14/18 06:16	09/17/18 15:15	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-15

Lab Sample ID: 440-219730-5

Date Collected: 09/10/18 11:00

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromobenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromochloromethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromodichloromethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromoform	ND	*	3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
2-Butanone (MEK)	ND		7.3	3.7	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Carbon tetrachloride	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chloroethane	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chloroform	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chloromethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
2-Chlorotoluene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
4-Chlorotoluene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
cis-1,2-Dichloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
cis-1,3-Dichloropropene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Dibromochloromethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Dibromomethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dichlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,3-Dichlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,4-Dichlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Dichlorodifluoromethane	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1-Dichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1-Dichloroethene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dichloropropane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,3-Dichloropropane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1-Dichloropropene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Ethylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Hexachlorobutadiene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Isopropylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Methylene Chloride	ND		15	3.7	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Methyl-t-Butyl Ether (MTBE)	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
m,p-Xylene	ND		2.9	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Naphthalene	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
n-Butylbenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
N-Propylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
o-Xylene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
p-Isopropyltoluene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
sec-Butylbenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Styrene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
tert-Butylbenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,1,2-Tetrachloroethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Tetrachloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Toluene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
trans-1,2-Dichloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-15

Lab Sample ID: 440-219730-5

Date Collected: 09/10/18 11:00

Matrix: Solid

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,3-Trichlorobenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,4-Trichlorobenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,1-Trichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,2-Trichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Trichloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Trichlorofluoromethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Vinyl chloride	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		79 - 120	09/10/18 14:26	09/14/18 13:16	1
Dibromofluoromethane (Surr)	115		60 - 120	09/10/18 14:26	09/14/18 13:16	1
Toluene-d8 (Surr)	100		79 - 123	09/10/18 14:26	09/14/18 13:16	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			09/14/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	X	65 - 140		09/14/18 17:47	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:00	1
ORO (C23-C40)	4.3	J B	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	47		40 - 140	09/14/18 06:01	09/14/18 17:00	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1221	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1232	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1242	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1248	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1254	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1260	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	51		45 - 120	09/14/18 06:16	09/17/18 15:28	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: EB-1

Lab Sample ID: 440-219730-6

Date Collected: 09/10/18 10:30

Matrix: Water

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromochloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromodichloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromoform	ND		1.0	0.40	ug/L			09/15/18 03:14	1
Bromomethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			09/15/18 03:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Chloroethane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
Chloroform	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Chloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Dibromochloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/15/18 03:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Dibromomethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Isopropylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			09/15/18 03:14	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			09/15/18 03:14	1
m,p-Xylene	ND		1.0	0.50	ug/L			09/15/18 03:14	1
Naphthalene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
n-Butylbenzene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
N-Propylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
o-Xylene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Styrene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Toluene	0.28	J	0.50	0.25	ug/L			09/15/18 03:14	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: EB-1

Lab Sample ID: 440-219730-6

Date Collected: 09/10/18 10:30

Matrix: Water

Date Received: 09/10/18 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Trichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/15/18 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		80 - 120		09/15/18 03:14	1
Dibromofluoromethane (Surr)	103		76 - 132		09/15/18 03:14	1
Toluene-d8 (Surr)	105		80 - 128		09/15/18 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			09/16/18 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		65 - 140		09/16/18 10:41	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.51	0.26	mg/L		09/12/18 14:12	09/13/18 03:27	1
ORO (C23-C40)	ND		0.51	0.26	mg/L		09/12/18 14:12	09/13/18 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	77		45 - 120	09/12/18 14:12	09/13/18 03:27	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1221	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1232	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1242	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1248	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1254	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1260	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		26 - 115	09/12/18 05:48	09/13/18 21:04	1

TestAmerica Irvine

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (79-120)	DBFM (60-120)	TOL (79-123)
440-219566-A-4 MS	Matrix Spike	92	111	100
440-219566-A-4 MSD	Matrix Spike Duplicate	93	111	102
440-219730-1	AOC4-SV15-5	93	115	103
440-219730-2	AOC4-SV15-15	94	113	102
440-219730-3	AOC4-SV15-15D	91	115	100
440-219730-4	AOC4-SV14-5	94	116	103
440-219730-5	AOC4-SV14-15	94	115	100
LCS 440-498992/5	Lab Control Sample	93	109	103
MB 440-498992/4	Method Blank	90	113	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (76-132)	TOL (80-128)
440-219730-6	EB-1	113	103	105
440-219838-A-1 MS	Matrix Spike	104	103	96
440-219838-A-1 MSD	Matrix Spike Duplicate	98	99	100
LCS 440-499147/5	Lab Control Sample	104	104	96
MB 440-499147/4	Method Blank	107	109	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (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)		
440-219730-1	AOC4-SV15-5	73		
440-219730-2	AOC4-SV15-15	77		
440-219730-3	AOC4-SV15-15D	67		
440-219730-4	AOC4-SV14-5	39 X		
440-219730-5	AOC4-SV14-15	60 X		
440-219975-E-9 MS	Matrix Spike	88		
440-219975-E-9 MSD	Matrix Spike Duplicate	97		
LCS 440-498996/3	Lab Control Sample	110		
LCSD 440-498996/4	Lab Control Sample Dup	106		
MB 440-498996/5	Method Blank	103		

Surrogate Legend

TestAmerica Irvine

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (65-140)
440-219730-6	EB-1	93
440-220206-A-1 MS	Matrix Spike	110
440-220206-A-1 MSD	Matrix Spike Duplicate	107
LCS 440-499265/28	Lab Control Sample	106
MB 440-499265/30	Method Blank	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCN1 (40-140)
440-219730-1	AOC4-SV15-5	59
440-219730-1 MS	AOC4-SV15-5	56
440-219730-1 MSD	AOC4-SV15-5	50
440-219730-2	AOC4-SV15-15	64
440-219730-3	AOC4-SV15-15D	66
440-219730-4	AOC4-SV14-5	71
440-219730-5	AOC4-SV14-15	47
LCS 440-498978/2-A	Lab Control Sample	80
MB 440-498978/1-A	Method Blank	81

Surrogate Legend

OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCN1 (45-120)
440-219730-6	EB-1	77
LCS 440-498584/2-A	Lab Control Sample	76
LCSD 440-498584/3-A	Lab Control Sample Dup	67
MB 440-498584/1-A	Method Blank	62

Surrogate Legend

OTCN = n-Octacosane

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (45-120)
440-219730-1	AOC4-SV15-5	56
440-219730-2	AOC4-SV15-15	55
440-219730-3	AOC4-SV15-15D	46
440-219730-4	AOC4-SV14-5	49
440-219730-5	AOC4-SV14-15	51
440-219944-B-1-D MS	Matrix Spike	68
440-219944-B-1-E MSD	Matrix Spike Duplicate	88
LCS 440-498981/2-A	Lab Control Sample	95
MB 440-498981/1-A	Method Blank	95

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (26-115)
440-219730-6	EB-1	82
440-219741-K-10-B MSD	Matrix Spike Duplicate	76
440-219741-L-10-A MS	Matrix Spike	75
LCS 440-498472/5-A	Lab Control Sample	74
MB 440-498472/1-A	Method Blank	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System 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: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-5

Date Collected: 09/10/18 08:10

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-1

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	5035			4.87 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 11:39	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	498996	09/14/18 14:55	YCL	TAL IRV
Total/NA	Prep	3546			15.27 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 13:18	LMB	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 14:35	JM	TAL IRV

Client Sample ID: AOC4-SV15-15

Date Collected: 09/10/18 09:15

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-2

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	5035			6.64 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 12:03	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	498996	09/14/18 15:23	YCL	TAL IRV
Total/NA	Prep	3546			15.20 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 16:38	LMB	TAL IRV
Total/NA	Prep	3546			15.37 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 14:48	JM	TAL IRV

Client Sample ID: AOC4-SV15-15D

Date Collected: 09/10/18 09:15

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-3

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	5035			5.72 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 12:27	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.13 g	10 mL	498996	09/14/18 15:52	YCL	TAL IRV
Total/NA	Prep	3546			15.29 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 16:16	LMB	TAL IRV
Total/NA	Prep	3546			15.29 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 15:02	JM	TAL IRV

Client Sample ID: AOC4-SV14-5

Date Collected: 09/10/18 08:30

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.11 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 12:51	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	498996	09/14/18 16:21	YCL	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-5

Date Collected: 09/10/18 08:30

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 17:22	LMB	TAL IRV
Total/NA	Prep	3546			15.42 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 15:15	JM	TAL IRV

Client Sample ID: AOC4-SV14-15

Date Collected: 09/10/18 11:00

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-5

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	5035			6.83 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 13:16	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.06 g	10 mL	498996	09/14/18 17:47	YCL	TAL IRV
Total/NA	Prep	3546			15.21 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 17:00	LMB	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 15:28	JM	TAL IRV

Client Sample ID: EB-1

Date Collected: 09/10/18 10:30

Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-6

Matrix: Water

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	10 mL	10 mL	499147	09/15/18 03:14	WC	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	499265	09/16/18 10:41	YCL	TAL IRV
Total/NA	Prep	3510C			245 mL	1 mL	498584	09/12/18 14:12	AJP	TAL IRV
Total/NA	Analysis	8015B		1			498686	09/13/18 03:27	LMB	TAL IRV
Total/NA	Prep	3510C			250 mL	2 mL	498472	09/12/18 05:48	L1H	TAL IRV
Total/NA	Analysis	8082		1			498839	09/13/18 21:04	JM	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: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: MB 440-498992/4

Matrix: Solid

Analysis Batch: 498992

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Bromobenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Bromoform	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			09/14/18 08:13	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Chloroethane	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
Chloroform	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Chloromethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Dibromomethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Methylene Chloride	ND		20	5.0	ug/Kg			09/14/18 08:13	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			09/14/18 08:13	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
o-Xylene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Styrene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Toluene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: MB 440-498992/4

Matrix: Solid

Analysis Batch: 498992

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Trichloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			09/14/18 08:13	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		79 - 120		09/14/18 08:13	1
Dibromofluoromethane (Surr)	113		60 - 120		09/14/18 08:13	1
Toluene-d8 (Surr)	105		79 - 123		09/14/18 08:13	1

Lab Sample ID: LCS 440-498992/5

Matrix: Solid

Analysis Batch: 498992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.4		ug/Kg		91	65 - 120
Bromobenzene	50.0	51.9		ug/Kg		104	75 - 120
Bromochloromethane	50.0	59.1		ug/Kg		118	70 - 135
Bromodichloromethane	50.0	57.4		ug/Kg		115	70 - 135
Bromoform	50.0	73.2	*	ug/Kg		146	55 - 135
Bromomethane	50.0	45.8		ug/Kg		92	60 - 145
2-Butanone (MEK)	50.0	53.4		ug/Kg		107	40 - 145
Carbon tetrachloride	50.0	55.6		ug/Kg		111	65 - 140
Chlorobenzene	50.0	48.8		ug/Kg		98	75 - 120
Chloroethane	50.0	44.7		ug/Kg		89	60 - 140
Chloroform	50.0	53.0		ug/Kg		106	70 - 130
Chloromethane	50.0	36.3		ug/Kg		73	45 - 145
2-Chlorotoluene	50.0	43.8		ug/Kg		88	70 - 125
4-Chlorotoluene	50.0	42.6		ug/Kg		85	75 - 125
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	75 - 125
Dibromochloromethane	50.0	60.7		ug/Kg		121	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/Kg		94	50 - 135
1,2-Dibromoethane (EDB)	50.0	55.5		ug/Kg		111	70 - 130
Dibromomethane	50.0	59.3		ug/Kg		119	70 - 130
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	75 - 120
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	75 - 125
1,4-Dichlorobenzene	50.0	44.0		ug/Kg		88	75 - 120
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	35 - 160
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: LCS 440-498992/5

Matrix: Solid

Analysis Batch: 498992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	56.7		ug/Kg		113	60 - 140
1,1-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
1,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 130
1,3-Dichloropropane	50.0	52.1		ug/Kg		104	70 - 125
2,2-Dichloropropane	50.0	52.3		ug/Kg		105	60 - 145
1,1-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 130
Ethylbenzene	50.0	44.6		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	64.9		ug/Kg		130	60 - 135
Isopropylbenzene	50.0	46.0		ug/Kg		92	75 - 130
Methylene Chloride	50.0	52.1		ug/Kg		104	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	54.5		ug/Kg		109	60 - 140
m,p-Xylene	50.0	50.1		ug/Kg		100	70 - 125
Naphthalene	50.0	45.5		ug/Kg		91	55 - 135
n-Butylbenzene	50.0	40.7		ug/Kg		81	70 - 130
N-Propylbenzene	50.0	41.2		ug/Kg		82	70 - 130
o-Xylene	50.0	50.4		ug/Kg		101	70 - 125
p-Isopropyltoluene	50.0	41.7		ug/Kg		83	75 - 125
sec-Butylbenzene	50.0	41.1		ug/Kg		82	70 - 125
Styrene	50.0	47.2		ug/Kg		94	75 - 130
tert-Butylbenzene	50.0	42.8		ug/Kg		86	70 - 125
1,1,1,2-Tetrachloroethane	50.0	57.3		ug/Kg		115	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	55 - 140
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 125
Toluene	50.0	44.5		ug/Kg		89	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	55.4		ug/Kg		111	70 - 135
1,2,3-Trichlorobenzene	50.0	56.6		ug/Kg		113	60 - 130
1,2,4-Trichlorobenzene	50.0	52.1		ug/Kg		104	70 - 135
1,1,1-Trichloroethane	50.0	53.1		ug/Kg		106	65 - 135
1,1,2-Trichloroethane	50.0	53.8		ug/Kg		108	65 - 135
Trichloroethene	50.0	51.9		ug/Kg		104	70 - 125
Trichlorofluoromethane	50.0	50.3		ug/Kg		101	60 - 145
1,2,3-Trichloropropane	50.0	49.9		ug/Kg		100	60 - 135
1,2,4-Trimethylbenzene	50.0	42.7		ug/Kg		85	70 - 125
1,3,5-Trimethylbenzene	50.0	42.6		ug/Kg		85	70 - 125
Vinyl chloride	50.0	46.7		ug/Kg		93	55 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		79 - 120
Dibromofluoromethane (Surr)	109		60 - 120
Toluene-d8 (Surr)	103		79 - 123

Lab Sample ID: 440-219566-A-4 MS

Matrix: Solid

Analysis Batch: 498992

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		49.7	46.2		ug/Kg		93	65 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: 440-219566-A-4 MS

Matrix: Solid

Analysis Batch: 498992

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
Bromobenzene	ND		49.7	52.2		ug/Kg		105	65 - 140
Bromochloromethane	ND		49.7	59.5		ug/Kg		120	65 - 145
Bromodichloromethane	ND		49.7	56.8		ug/Kg		114	65 - 145
Bromoform	ND *		49.7	69.9		ug/Kg		141	50 - 145
Bromomethane	ND		49.7	47.2		ug/Kg		95	60 - 155
2-Butanone (MEK)	ND		49.7	54.5		ug/Kg		110	25 - 170
Carbon tetrachloride	ND		49.7	55.9		ug/Kg		112	60 - 145
Chlorobenzene	ND		49.7	47.5		ug/Kg		95	70 - 130
Chloroethane	ND		49.7	45.5		ug/Kg		92	60 - 150
Chloroform	ND		49.7	53.9		ug/Kg		108	65 - 135
Chloromethane	ND		49.7	38.3		ug/Kg		77	40 - 145
2-Chlorotoluene	ND		49.7	43.9		ug/Kg		88	60 - 135
4-Chlorotoluene	ND		49.7	41.5		ug/Kg		84	65 - 135
cis-1,2-Dichloroethene	ND		49.7	51.9		ug/Kg		104	65 - 135
cis-1,3-Dichloropropene	ND		49.7	53.2		ug/Kg		107	70 - 135
Dibromochloromethane	ND		49.7	58.2		ug/Kg		117	60 - 145
1,2-Dibromo-3-Chloropropane	ND		49.7	48.0		ug/Kg		97	40 - 150
1,2-Dibromoethane (EDB)	ND		49.7	53.9		ug/Kg		108	65 - 140
Dibromomethane	ND		49.7	57.2		ug/Kg		115	65 - 140
1,2-Dichlorobenzene	ND		49.7	46.7		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	ND		49.7	43.2		ug/Kg		87	70 - 130
1,4-Dichlorobenzene	ND		49.7	43.9		ug/Kg		88	70 - 130
Dichlorodifluoromethane	ND		49.7	42.9		ug/Kg		86	30 - 160
1,1-Dichloroethane	ND		49.7	50.7		ug/Kg		102	65 - 135
1,2-Dichloroethane	ND		49.7	55.5		ug/Kg		112	60 - 150
1,1-Dichloroethene	ND		49.7	50.6		ug/Kg		102	65 - 135
1,2-Dichloropropane	ND		49.7	53.2		ug/Kg		107	65 - 130
1,3-Dichloropropane	ND		49.7	50.3		ug/Kg		101	65 - 140
2,2-Dichloropropane	ND		49.7	49.7		ug/Kg		100	65 - 150
1,1-Dichloropropene	ND		49.7	49.9		ug/Kg		100	65 - 135
Ethylbenzene	ND		49.7	43.0		ug/Kg		87	70 - 135
Hexachlorobutadiene	ND		49.7	63.5		ug/Kg		128	50 - 145
Isopropylbenzene	ND		49.7	44.8		ug/Kg		90	70 - 145
Methylene Chloride	ND		49.7	52.1		ug/Kg		105	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.7	53.4		ug/Kg		107	55 - 155
m,p-Xylene	ND		49.7	48.3		ug/Kg		97	70 - 130
Naphthalene	ND		49.7	44.4		ug/Kg		89	40 - 150
n-Butylbenzene	ND		49.7	40.9		ug/Kg		82	55 - 145
N-Propylbenzene	ND		49.7	41.4		ug/Kg		83	65 - 140
o-Xylene	ND		49.7	47.5		ug/Kg		96	65 - 130
p-Isopropyltoluene	ND		49.7	40.9		ug/Kg		82	60 - 140
sec-Butylbenzene	ND		49.7	39.9		ug/Kg		80	60 - 135
Styrene	ND		49.7	45.0		ug/Kg		91	70 - 140
tert-Butylbenzene	ND		49.7	43.0		ug/Kg		87	60 - 140
1,1,1,2-Tetrachloroethane	ND		49.7	55.1		ug/Kg		111	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.7	48.3		ug/Kg		97	40 - 160
Tetrachloroethene	ND		49.7	50.0		ug/Kg		101	65 - 135
Toluene	ND		49.7	42.8		ug/Kg		86	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: 440-219566-A-4 MS

Matrix: Solid

Analysis Batch: 498992

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
trans-1,2-Dichloroethene	ND		49.7	52.0		ug/Kg		105	70 - 135
trans-1,3-Dichloropropene	ND		49.7	52.4		ug/Kg		105	60 - 145
1,2,3-Trichlorobenzene	1.8	J	49.7	55.4		ug/Kg		108	45 - 145
1,2,4-Trichlorobenzene	ND		49.7	52.7		ug/Kg		106	50 - 140
1,1,1-Trichloroethane	ND		49.7	53.6		ug/Kg		108	65 - 145
1,1,2-Trichloroethane	ND		49.7	52.8		ug/Kg		106	65 - 140
Trichloroethene	ND		49.7	52.4		ug/Kg		105	65 - 140
Trichlorofluoromethane	ND		49.7	50.3		ug/Kg		101	55 - 155
1,2,3-Trichloropropane	ND		49.7	51.2		ug/Kg		103	50 - 150
1,2,4-Trimethylbenzene	ND		49.7	41.8		ug/Kg		84	65 - 140
1,3,5-Trimethylbenzene	ND		49.7	42.8		ug/Kg		86	65 - 135
Vinyl chloride	ND		49.7	45.9		ug/Kg		92	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		79 - 120
Dibromofluoromethane (Surr)	111		60 - 120
Toluene-d8 (Surr)	100		79 - 123

Lab Sample ID: 440-219566-A-4 MSD

Matrix: Solid

Analysis Batch: 498992

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
Benzene	ND		49.7	44.6		ug/Kg		90	65 - 130	4	20
Bromobenzene	ND		49.7	51.1		ug/Kg		103	65 - 140	2	25
Bromochloromethane	ND		49.7	60.8		ug/Kg		122	65 - 145	2	25
Bromodichloromethane	ND		49.7	57.3		ug/Kg		115	65 - 145	1	20
Bromoform	ND	*	49.7	71.0		ug/Kg		143	50 - 145	1	30
Bromomethane	ND		49.7	45.7		ug/Kg		92	60 - 155	3	25
2-Butanone (MEK)	ND		49.7	55.8		ug/Kg		112	25 - 170	2	40
Carbon tetrachloride	ND		49.7	55.5		ug/Kg		112	60 - 145	1	25
Chlorobenzene	ND		49.7	47.1		ug/Kg		95	70 - 130	1	25
Chloroethane	ND		49.7	43.6		ug/Kg		88	60 - 150	4	25
Chloroform	ND		49.7	53.5		ug/Kg		108	65 - 135	1	20
Chloromethane	ND		49.7	35.7		ug/Kg		72	40 - 145	7	25
2-Chlorotoluene	ND		49.7	42.9		ug/Kg		86	60 - 135	2	25
4-Chlorotoluene	ND		49.7	41.5		ug/Kg		83	65 - 135	0	25
cis-1,2-Dichloroethene	ND		49.7	50.7		ug/Kg		102	65 - 135	2	25
cis-1,3-Dichloropropene	ND		49.7	52.8		ug/Kg		106	70 - 135	1	25
Dibromochloromethane	ND		49.7	58.7		ug/Kg		118	60 - 145	1	25
1,2-Dibromo-3-Chloropropane	ND		49.7	46.5		ug/Kg		93	40 - 150	3	30
1,2-Dibromoethane (EDB)	ND		49.7	54.0		ug/Kg		109	65 - 140	0	25
Dibromomethane	ND		49.7	57.0		ug/Kg		115	65 - 140	0	25
1,2-Dichlorobenzene	ND		49.7	46.2		ug/Kg		93	70 - 130	1	25
1,3-Dichlorobenzene	ND		49.7	42.5		ug/Kg		85	70 - 130	2	25
1,4-Dichlorobenzene	ND		49.7	41.9		ug/Kg		84	70 - 130	5	25
Dichlorodifluoromethane	ND		49.7	41.2		ug/Kg		83	30 - 160	4	35
1,1-Dichloroethane	ND		49.7	49.7		ug/Kg		100	65 - 135	2	25

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: 440-219566-A-4 MSD

Matrix: Solid

Analysis Batch: 498992

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
1,2-Dichloroethane	ND		49.7	55.3		ug/Kg		111	60 - 150	0	25
1,1-Dichloroethene	ND		49.7	47.3		ug/Kg		95	65 - 135	7	25
1,2-Dichloropropane	ND		49.7	53.0		ug/Kg		107	65 - 130	0	20
1,3-Dichloropropane	ND		49.7	51.1		ug/Kg		103	65 - 140	2	25
2,2-Dichloropropane	ND		49.7	54.2		ug/Kg		109	65 - 150	9	25
1,1-Dichloropropene	ND		49.7	48.9		ug/Kg		98	65 - 135	2	20
Ethylbenzene	ND		49.7	43.3		ug/Kg		87	70 - 135	1	25
Hexachlorobutadiene	ND		49.7	65.6		ug/Kg		132	50 - 145	3	35
Isopropylbenzene	ND		49.7	44.5		ug/Kg		90	70 - 145	1	25
Methylene Chloride	ND		49.7	52.6		ug/Kg		106	55 - 145	1	25
Methyl-t-Butyl Ether (MTBE)	ND		49.7	53.9		ug/Kg		108	55 - 155	1	35
m,p-Xylene	ND		49.7	48.0		ug/Kg		97	70 - 130	0	25
Naphthalene	ND		49.7	44.9		ug/Kg		90	40 - 150	1	40
n-Butylbenzene	ND		49.7	40.1		ug/Kg		81	55 - 145	2	30
N-Propylbenzene	ND		49.7	40.3		ug/Kg		81	65 - 140	3	25
o-Xylene	ND		49.7	47.4		ug/Kg		95	65 - 130	0	25
p-Isopropyltoluene	ND		49.7	41.0		ug/Kg		82	60 - 140	0	25
sec-Butylbenzene	ND		49.7	40.1		ug/Kg		81	60 - 135	0	25
Styrene	ND		49.7	46.2		ug/Kg		93	70 - 140	3	25
tert-Butylbenzene	ND		49.7	42.1		ug/Kg		85	60 - 140	2	25
1,1,1,2-Tetrachloroethane	ND		49.7	55.1		ug/Kg		111	65 - 145	0	20
1,1,2,2-Tetrachloroethane	ND		49.7	46.5		ug/Kg		94	40 - 160	4	30
Tetrachloroethene	ND		49.7	50.7		ug/Kg		102	65 - 135	1	25
Toluene	ND		49.7	42.8		ug/Kg		86	70 - 130	0	20
trans-1,2-Dichloroethene	ND		49.7	50.1		ug/Kg		101	70 - 135	4	25
trans-1,3-Dichloropropene	ND		49.7	54.4		ug/Kg		109	60 - 145	4	25
1,2,3-Trichlorobenzene	1.8	J	49.7	56.4		ug/Kg		110	45 - 145	2	30
1,2,4-Trichlorobenzene	ND		49.7	52.4		ug/Kg		106	50 - 140	1	30
1,1,1-Trichloroethane	ND		49.7	51.5		ug/Kg		104	65 - 145	4	20
1,1,2-Trichloroethane	ND		49.7	52.1		ug/Kg		105	65 - 140	1	30
Trichloroethene	ND		49.7	49.9		ug/Kg		100	65 - 140	5	25
Trichlorofluoromethane	ND		49.7	48.6		ug/Kg		98	55 - 155	3	25
1,2,3-Trichloropropane	ND		49.7	46.9		ug/Kg		94	50 - 150	9	30
1,2,4-Trimethylbenzene	ND		49.7	41.0		ug/Kg		82	65 - 140	2	25
1,3,5-Trimethylbenzene	ND		49.7	41.2		ug/Kg		83	65 - 135	4	25
Vinyl chloride	ND		49.7	44.6		ug/Kg		90	55 - 140	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		79 - 120
Dibromofluoromethane (Surr)	111		60 - 120
Toluene-d8 (Surr)	102		79 - 123

Lab Sample ID: MB 440-499147/4

Matrix: Water

Analysis Batch: 499147

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: MB 440-499147/4

Matrix: Water

Analysis Batch: 499147

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Bromochloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Bromodichloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Bromoform	ND		1.0	0.40	ug/L			09/14/18 19:13	1
Bromomethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			09/14/18 19:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Chloroethane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
Chloroform	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Chloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Dibromochloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/14/18 19:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Dibromomethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Isopropylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			09/14/18 19:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			09/14/18 19:13	1
m,p-Xylene	ND		1.0	0.50	ug/L			09/14/18 19:13	1
Naphthalene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
n-Butylbenzene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
N-Propylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
o-Xylene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Styrene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Toluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: MB 440-499147/4

Matrix: Water

Analysis Batch: 499147

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Trichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/14/18 19:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		09/14/18 19:13	1
Dibromofluoromethane (Surr)	109		76 - 132		09/14/18 19:13	1
Toluene-d8 (Surr)	104		80 - 128		09/14/18 19:13	1

Lab Sample ID: LCS 440-499147/5

Matrix: Water

Analysis Batch: 499147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.0		ug/L		104	68 - 130
Bromobenzene	25.0	28.3		ug/L		113	70 - 130
Bromochloromethane	25.0	27.1		ug/L		108	70 - 130
Bromodichloromethane	25.0	30.6		ug/L		122	70 - 132
Bromoform	25.0	26.2		ug/L		105	60 - 148
Bromomethane	25.0	26.8		ug/L		107	64 - 139
2-Butanone (MEK)	25.0	26.6		ug/L		106	44 - 150
Carbon tetrachloride	25.0	27.9		ug/L		111	60 - 150
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	26.0		ug/L		104	64 - 135
Chloroform	25.0	27.9		ug/L		111	70 - 130
Chloromethane	25.0	28.0		ug/L		112	47 - 140
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
4-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 133
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 133
Dibromochloromethane	25.0	28.3		ug/L		113	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.3		ug/L		109	70 - 130
Dibromomethane	25.0	26.9		ug/L		108	70 - 130
1,2-Dichlorobenzene	25.0	28.6		ug/L		114	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	28.3		ug/L		113	29 - 150
1,1-Dichloroethane	25.0	27.1		ug/L		108	64 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: LCS 440-499147/5

Matrix: Water

Analysis Batch: 499147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	30.7		ug/L		123	57 - 138
1,1-Dichloroethene	25.0	27.7		ug/L		111	70 - 130
1,2-Dichloropropane	25.0	27.1		ug/L		108	67 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	27.8		ug/L		111	68 - 141
1,1-Dichloropropene	25.0	27.5		ug/L		110	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	26.3		ug/L		105	10 - 150
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
Methylene Chloride	25.0	25.3		ug/L		101	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	28.0		ug/L		112	63 - 131
m,p-Xylene	25.0	25.6		ug/L		102	70 - 130
Naphthalene	25.0	22.5		ug/L		90	60 - 140
n-Butylbenzene	25.0	24.7		ug/L		99	65 - 150
N-Propylbenzene	25.0	26.3		ug/L		105	67 - 139
o-Xylene	25.0	26.2		ug/L		105	70 - 130
p-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 132
sec-Butylbenzene	25.0	25.1		ug/L		101	70 - 138
Styrene	25.0	25.4		ug/L		102	70 - 134
tert-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	63 - 130
Tetrachloroethene	25.0	24.0		ug/L		96	70 - 130
Toluene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 132
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	60 - 140
1,1,1-Trichloroethane	25.0	28.3		ug/L		113	70 - 130
1,1,2-Trichloroethane	25.0	28.0		ug/L		112	70 - 130
Trichloroethene	25.0	27.6		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	27.5		ug/L		110	60 - 150
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	63 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		103	70 - 135
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 136
Vinyl chloride	25.0	27.0		ug/L		108	59 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132
Toluene-d8 (Surr)	96		80 - 128

Lab Sample ID: 440-219838-A-1 MS

Matrix: Water

Analysis Batch: 499147

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		25.0	26.2		ug/L		105	66 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: 440-219838-A-1 MS

Matrix: Water

Analysis Batch: 499147

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
Bromobenzene	ND		25.0	28.6		ug/L		114	70 - 130
Bromochloromethane	ND		25.0	28.4		ug/L		113	70 - 130
Bromodichloromethane	ND		25.0	30.1		ug/L		121	70 - 138
Bromoform	ND		25.0	26.2		ug/L		105	59 - 150
Bromomethane	ND		25.0	28.6		ug/L		114	62 - 131
2-Butanone (MEK)	ND		25.0	22.6		ug/L		90	48 - 140
Carbon tetrachloride	ND		25.0	29.9		ug/L		120	60 - 150
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
Chloroethane	ND		25.0	28.1		ug/L		112	68 - 130
Chloroform	ND		25.0	28.5		ug/L		114	70 - 130
Chloromethane	ND		25.0	29.8		ug/L		119	39 - 144
2-Chlorotoluene	ND		25.0	27.7		ug/L		111	70 - 130
4-Chlorotoluene	ND		25.0	28.6		ug/L		114	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		107	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.3		ug/L		109	70 - 133
Dibromochloromethane	ND		25.0	28.0		ug/L		112	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	24.5		ug/L		98	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	26.6		ug/L		106	70 - 131
Dibromomethane	ND		25.0	26.5		ug/L		106	70 - 130
1,2-Dichlorobenzene	ND		25.0	28.3		ug/L		113	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.8		ug/L		111	70 - 130
1,4-Dichlorobenzene	ND		25.0	27.9		ug/L		112	70 - 130
Dichlorodifluoromethane	ND		25.0	29.6		ug/L		118	25 - 142
1,1-Dichloroethane	ND		25.0	29.3		ug/L		117	65 - 130
1,2-Dichloroethane	ND		25.0	30.5		ug/L		122	56 - 146
1,1-Dichloroethene	ND		25.0	28.3		ug/L		113	70 - 130
1,2-Dichloropropane	ND		25.0	28.3		ug/L		113	69 - 130
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	ND		25.0	30.5		ug/L		122	69 - 138
1,1-Dichloropropene	ND		25.0	28.5		ug/L		114	64 - 130
Ethylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
Hexachlorobutadiene	ND		25.0	26.5		ug/L		106	10 - 150
Isopropylbenzene	ND		25.0	27.2		ug/L		109	70 - 132
Methylene Chloride	ND		25.0	26.3		ug/L		105	52 - 130
Methyl-t-Butyl Ether (MTBE)	1.1		25.0	28.9		ug/L		111	70 - 130
m,p-Xylene	ND		25.0	26.3		ug/L		105	70 - 133
Naphthalene	ND		25.0	23.1		ug/L		93	60 - 140
n-Butylbenzene	ND		25.0	27.2		ug/L		109	61 - 149
N-Propylbenzene	ND		25.0	28.9		ug/L		115	66 - 135
o-Xylene	ND		25.0	25.8		ug/L		103	70 - 133
p-Isopropyltoluene	ND		25.0	27.3		ug/L		109	70 - 130
sec-Butylbenzene	ND		25.0	27.0		ug/L		108	67 - 134
Styrene	ND		25.0	25.3		ug/L		101	29 - 150
tert-Butylbenzene	ND		25.0	27.2		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.4		ug/L		106	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	25.1		ug/L		100	63 - 130
Tetrachloroethene	ND		25.0	26.6		ug/L		106	70 - 137
Toluene	ND		25.0	25.3		ug/L		101	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: 440-219838-A-1 MS

Matrix: Water

Analysis Batch: 499147

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
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140
1,1,1-Trichloroethane	ND		25.0	30.8		ug/L		123	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		109	70 - 130
Trichloroethene	ND		25.0	28.9		ug/L		116	70 - 130
Trichlorofluoromethane	ND		25.0	29.9		ug/L		120	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.0		ug/L		104	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	ND		25.0	29.3		ug/L		117	50 - 137

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	103		76 - 132
Toluene-d8 (Surr)	96		80 - 128

Lab Sample ID: 440-219838-A-1 MSD

Matrix: Water

Analysis Batch: 499147

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
Benzene	ND		25.0	25.1		ug/L		100	66 - 130	5	20
Bromobenzene	ND		25.0	26.6		ug/L		106	70 - 130	7	20
Bromochloromethane	ND		25.0	26.8		ug/L		107	70 - 130	6	25
Bromodichloromethane	ND		25.0	28.7		ug/L		115	70 - 138	5	20
Bromoform	ND		25.0	27.5		ug/L		110	59 - 150	5	25
Bromomethane	ND		25.0	26.8		ug/L		107	62 - 131	7	25
2-Butanone (MEK)	ND		25.0	23.6		ug/L		94	48 - 140	4	40
Carbon tetrachloride	ND		25.0	27.6		ug/L		110	60 - 150	8	25
Chlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	4	20
Chloroethane	ND		25.0	25.9		ug/L		104	68 - 130	8	25
Chloroform	ND		25.0	26.8		ug/L		107	70 - 130	6	20
Chloromethane	ND		25.0	27.1		ug/L		108	39 - 144	10	25
2-Chlorotoluene	ND		25.0	25.1		ug/L		101	70 - 130	10	20
4-Chlorotoluene	ND		25.0	26.5		ug/L		106	70 - 130	7	20
cis-1,2-Dichloroethene	ND		25.0	24.4		ug/L		97	70 - 130	9	20
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 133	2	20
Dibromochloromethane	ND		25.0	28.7		ug/L		115	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	24.1		ug/L		97	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		25.0	28.3		ug/L		113	70 - 131	6	25
Dibromomethane	ND		25.0	25.1		ug/L		101	70 - 130	5	25
1,2-Dichlorobenzene	ND		25.0	26.6		ug/L		106	70 - 130	6	20
1,3-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	7	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	8	20
Dichlorodifluoromethane	ND		25.0	28.5		ug/L		114	25 - 142	4	30
1,1-Dichloroethane	ND		25.0	28.3		ug/L		113	65 - 130	3	20

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: 440-219838-A-1 MSD

Matrix: Water

Analysis Batch: 499147

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
1,2-Dichloroethane	ND		25.0	29.9		ug/L		120	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	26.3		ug/L		105	70 - 130	7	20
1,2-Dichloropropane	ND		25.0	26.9		ug/L		108	69 - 130	5	20
1,3-Dichloropropane	ND		25.0	27.1		ug/L		108	70 - 130	7	25
2,2-Dichloropropane	ND		25.0	28.8		ug/L		115	69 - 138	6	25
1,1-Dichloropropene	ND		25.0	27.5		ug/L		110	64 - 130	3	20
Ethylbenzene	ND		25.0	26.1		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	10 - 150	3	20
Isopropylbenzene	ND		25.0	26.8		ug/L		107	70 - 132	2	20
Methylene Chloride	ND		25.0	26.1		ug/L		104	52 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	1.1		25.0	28.7		ug/L		111	70 - 130	1	25
m,p-Xylene	ND		25.0	27.1		ug/L		108	70 - 133	3	25
Naphthalene	ND		25.0	22.7		ug/L		91	60 - 140	2	30
n-Butylbenzene	ND		25.0	24.1		ug/L		96	61 - 149	12	20
N-Propylbenzene	ND		25.0	25.8		ug/L		103	66 - 135	11	20
o-Xylene	ND		25.0	26.9		ug/L		108	70 - 133	4	20
p-Isopropyltoluene	ND		25.0	25.7		ug/L		103	70 - 130	6	20
sec-Butylbenzene	ND		25.0	25.0		ug/L		100	67 - 134	8	20
Styrene	ND		25.0	25.2		ug/L		101	29 - 150	0	35
tert-Butylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	8	20
1,1,1,2-Tetrachloroethane	ND		25.0	27.9		ug/L		112	60 - 149	6	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.9		ug/L		99	63 - 130	1	30
Tetrachloroethene	ND		25.0	25.2		ug/L		101	70 - 137	6	20
Toluene	ND		25.0	26.0		ug/L		104	70 - 130	3	20
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	70 - 130	6	20
trans-1,3-Dichloropropene	ND		25.0	28.5		ug/L		114	70 - 138	4	25
1,2,3-Trichlorobenzene	ND		25.0	22.8		ug/L		91	60 - 140	9	20
1,2,4-Trichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	6	20
1,1,1-Trichloroethane	ND		25.0	28.5		ug/L		114	70 - 130	8	20
1,1,2-Trichloroethane	ND		25.0	28.3		ug/L		113	70 - 130	3	25
Trichloroethene	ND		25.0	28.3		ug/L		113	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	27.7		ug/L		111	60 - 150	8	25
1,2,3-Trichloropropane	ND		25.0	25.6		ug/L		102	60 - 130	1	30
1,2,4-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	8	25
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	8	20
Vinyl chloride	ND		25.0	27.7		ug/L		111	50 - 137	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	99		76 - 132
Toluene-d8 (Surr)	100		80 - 128

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: MB 440-498996/5

Matrix: Solid

Analysis Batch: 498996

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			09/14/18 11:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		65 - 140					09/14/18 11:04	1

Lab Sample ID: LCS 440-498996/3

Matrix: Solid

Analysis Batch: 498996

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	1460		ug/Kg		91	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	110		65 - 140				

Lab Sample ID: LCSD 440-498996/4

Matrix: Solid

Analysis Batch: 498996

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	1480		ug/Kg		93	70 - 135	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		65 - 140						

Lab Sample ID: 440-219975-E-9 MS

Matrix: Solid

Analysis Batch: 498996

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
GRO (C4-C12)	ND		1600	1380		ug/Kg		86	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	88		65 - 140						

Lab Sample ID: 440-219975-E-9 MSD

Matrix: Solid

Analysis Batch: 498996

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
GRO (C4-C12)	ND		1600	1370		ug/Kg		85	60 - 140	1	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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

Lab Sample ID: MB 440-499265/30

Matrix: Water

Analysis Batch: 499265

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		50	25	ug/L			09/16/18 10:12	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		65 - 140					09/16/18 10:12	1

Lab Sample ID: LCS 440-499265/28

Matrix: Water

Analysis Batch: 499265

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)	800	697		ug/L		87	80 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		65 - 140				

Lab Sample ID: 440-220206-A-1 MS

Matrix: Water

Analysis Batch: 499265

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
GRO (C4-C12)	ND		800	611		ug/L		76	65 - 140
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		65 - 140						

Lab Sample ID: 440-220206-A-1 MSD

Matrix: Water

Analysis Batch: 499265

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
GRO (C4-C12)	ND		800	630		ug/L		79	65 - 140	3	20
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		65 - 140								

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-498584/1-A

Matrix: Water

Analysis Batch: 498686

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		09/12/18 11:15	09/12/18 20:12	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		09/12/18 11:15	09/12/18 20:12	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-498584/1-A

Matrix: Water

Analysis Batch: 498686

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498584

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	62		45 - 120	09/12/18 11:15	09/12/18 20:12	1

Lab Sample ID: LCS 440-498584/2-A

Matrix: Water

Analysis Batch: 498686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 498584

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			1.00	0.603		mg/L		60	40 - 115		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
n-Octacosane	76		45 - 120								

Lab Sample ID: LCSD 440-498584/3-A

Matrix: Water

Analysis Batch: 498686

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 498584

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28			1.00	0.587		mg/L	-	59	40 - 115	3	25
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane	67		45 - 120								

Lab Sample ID: MB 440-498978/1-A

Matrix: Solid

Analysis Batch: 499059

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498978

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		09/14/18 06:01	09/14/18 12:35	1
ORO (C23-C40)	2.72	J	5.0	2.5	mg/Kg		09/14/18 06:01	09/14/18 12:35	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	81		40 - 140				09/14/18 06:01	09/14/18 12:35	1

Lab Sample ID: LCS 440-498978/2-A

Matrix: Solid

Analysis Batch: 499059

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 498978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.7	53.7		mg/Kg		81	45 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane	80		40 - 140				

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-219730-1 MS

Matrix: Solid

Analysis Batch: 499059

Client Sample ID: AOC4-SV15-5

Prep Type: Total/NA

Prep Batch: 498978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	3.7	J	65.0	42.5		mg/Kg		60	40 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane	56		40 - 140						

Lab Sample ID: 440-219730-1 MSD

Matrix: Solid

Analysis Batch: 499059

Client Sample ID: AOC4-SV15-5

Prep Type: Total/NA

Prep Batch: 498978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	3.7	J	64.7	40.8		mg/Kg		57	40 - 120	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane	50		40 - 140								

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-498472/1-A

Matrix: Water

Analysis Batch: 498839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1221	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1232	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1242	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1248	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1254	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1260	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		26 - 115				09/12/18 05:48	09/13/18 18:45	1

Lab Sample ID: LCS 440-498472/5-A

Matrix: Water

Analysis Batch: 498839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 498472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	2.70		ug/L		67	50 - 115
Aroclor 1260	4.00	2.82		ug/L		70	53 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	74		26 - 115				

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-219741-K-10-B MSD

Matrix: Water

Analysis Batch: 498839

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 498472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	ND		4.26	2.96		ug/L		70	45 - 120	1	30
Aroclor 1260	ND		4.26	3.17		ug/L		74	55 - 125	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	76		26 - 115

Lab Sample ID: 440-219741-L-10-A MS

Matrix: Water

Analysis Batch: 498839

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 498472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		4.35	2.99		ug/L		69	45 - 120
Aroclor 1260	ND		4.35	3.25		ug/L		75	55 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	75		26 - 115

Lab Sample ID: MB 440-498981/1-A

Matrix: Solid

Analysis Batch: 499072

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1221	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1232	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1242	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1248	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1254	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1260	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	95		45 - 120	09/14/18 06:16	09/14/18 14:10	1

Lab Sample ID: LCS 440-498981/2-A

Matrix: Solid

Analysis Batch: 499072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 498981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	235		ug/Kg		88	65 - 115
Aroclor 1260	267	241		ug/Kg		90	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	95		45 - 120

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-219944-B-1-D MS

Matrix: Solid

Analysis Batch: 499072

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 498981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		264	193		ug/Kg		73	50 - 120
Aroclor 1260	ND		264	188		ug/Kg		71	50 - 125
		MS	MS						
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	68		45 - 120						

Lab Sample ID: 440-219944-B-1-E MSD

Matrix: Solid

Analysis Batch: 499072

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 498981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		262	204		ug/Kg		78	50 - 120	5	30
Aroclor 1260	ND		262	177		ug/Kg		67	50 - 125	6	30
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	88		45 - 120								

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

GC/MS VOA

Analysis Batch: 498992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8260B	499060
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8260B	499060
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8260B	499060
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8260B	499060
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8260B	499060
MB 440-498992/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-498992/5	Lab Control Sample	Total/NA	Solid	8260B	
440-219566-A-4 MS	Matrix Spike	Total/NA	Solid	8260B	
440-219566-A-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Prep Batch: 499060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	5035	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	5035	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	5035	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	5035	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	5035	

Analysis Batch: 499147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8260B	
MB 440-499147/4	Method Blank	Total/NA	Water	8260B	
LCS 440-499147/5	Lab Control Sample	Total/NA	Water	8260B	
440-219838-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-219838-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 498996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8015B	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8015B	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8015B	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8015B	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8015B	
MB 440-498996/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-498996/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-498996/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-219975-E-9 MS	Matrix Spike	Total/NA	Solid	8015B	
440-219975-E-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

Analysis Batch: 499265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8015B	
MB 440-499265/30	Method Blank	Total/NA	Water	8015B	
LCS 440-499265/28	Lab Control Sample	Total/NA	Water	8015B	
440-220206-A-1 MS	Matrix Spike	Total/NA	Water	8015B	
440-220206-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

TestAmerica Irvine

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

GC Semi VOA

Prep Batch: 498472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	3510C	
MB 440-498472/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-498472/5-A	Lab Control Sample	Total/NA	Water	3510C	
440-219741-K-10-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
440-219741-L-10-A MS	Matrix Spike	Total/NA	Water	3510C	

Prep Batch: 498584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	3510C	
MB 440-498584/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-498584/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-498584/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 498686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8015B	498584
MB 440-498584/1-A	Method Blank	Total/NA	Water	8015B	498584
LCS 440-498584/2-A	Lab Control Sample	Total/NA	Water	8015B	498584
LCSD 440-498584/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	498584

Analysis Batch: 498839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8082	498472
MB 440-498472/1-A	Method Blank	Total/NA	Water	8082	498472
LCS 440-498472/5-A	Lab Control Sample	Total/NA	Water	8082	498472
440-219741-K-10-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082	498472
440-219741-L-10-A MS	Matrix Spike	Total/NA	Water	8082	498472

Prep Batch: 498978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	3546	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	3546	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	3546	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	3546	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	3546	
MB 440-498978/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-498978/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-219730-1 MS	AOC4-SV15-5	Total/NA	Solid	3546	
440-219730-1 MSD	AOC4-SV15-5	Total/NA	Solid	3546	

Prep Batch: 498981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	3546	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	3546	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	3546	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	3546	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	3546	
MB 440-498981/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-498981/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-219944-B-1-D MS	Matrix Spike	Total/NA	Solid	3546	
440-219944-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

TestAmerica Irvine

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Analysis Batch: 499059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8015B	498978
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8015B	498978
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8015B	498978
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8015B	498978
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8015B	498978
MB 440-498978/1-A	Method Blank	Total/NA	Solid	8015B	498978
LCS 440-498978/2-A	Lab Control Sample	Total/NA	Solid	8015B	498978
440-219730-1 MS	AOC4-SV15-5	Total/NA	Solid	8015B	498978
440-219730-1 MSD	AOC4-SV15-5	Total/NA	Solid	8015B	498978

Analysis Batch: 499072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-498981/1-A	Method Blank	Total/NA	Solid	8082	498981
LCS 440-498981/2-A	Lab Control Sample	Total/NA	Solid	8082	498981
440-219944-B-1-D MS	Matrix Spike	Total/NA	Solid	8082	498981
440-219944-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	498981

Analysis Batch: 499348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8082	498981
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8082	498981
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8082	498981
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8082	498981
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8082	498981

Definitions/Glossary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

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		Water	GRO (C4-C12)
8015B	3510C	Water	DRO (C13-C22)
8015B	3510C	Water	ORO (C23-C40)
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B		Water	m,p-Xylene
8260B	5035	Solid	m,p-Xylene

TestAmerica Irvine
17461 Perian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1822 Fax:

Chain of Custody Record

206568

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

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

Company Name	Parsons	Client Contact	Justin King	Project Manager: Justin King	Site Contact: Justin King	Carrier: 9/10/18	COC No:
Address: 100 W. Walnut St.		Tel/Fax: 626-440-6133					1 of 1 COCs
City/State/Zip: Pasadena CA 91124							
Phone: 626-440-6153							
Fax:							
Project Name: Reseda High School							
Site: Reseda High School							
PO#							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lab Contact:	Site Contact:	Date:	Carrier:
AOC4-SV15-5	9/10/18	810	G	S	5	X	X	GRO/DRO 8015B	VOCs 8260B	9/10/18	
AOC4-SV15-15	"	915	G	S	5	X	X	PCB 8082			
AOC4-SV15-15D	"	915	G	S	5	X	X				
AOC4-SV14-5	"	830	G	S	5	X	X				
AOC4-SV14-15	"	1100	G	S	5	X	X				
EB-1	"	1030	G	W	9	X	X				
FB	"	"	"	W	"	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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seal No.:	Parsons	9/10/18 1137	Received by: Adonis Agkis	Company: TestAmerica	Date/Time: 9/10/18 1137
Relinquished by: Peter Sharf	Company: TestAmerica	Date/Time: 9/10/18 1137	Received by:	Company:	Date/Time:
Relinquished by: Adonis Agkis	Company: TestAmerica	Date/Time: 9/10/18 1137	Received in Laboratory by:	Company: TA-12V	Date/Time: 9/10/18 1330

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-219730-1

Login Number: 219730

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?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-221644-1

Client Project/Site: LAUSD Reseda H.S., CA

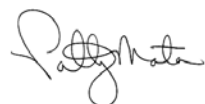
For:

Parsons Corporation

100 W Walnut Street

Pasadena, California 91124

Attn: Justin King



Authorized for release by:

10/15/2018 3:08:43 PM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

LINKS

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results through

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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	5
Client Sample Results	6
Surrogate Summary	20
Method Summary	23
Lab Chronicle	24
QC Sample Results	26
QC Association Summary	45
Definitions/Glossary	48
Certification Summary	49
Chain of Custody	50
Receipt Checklists	51



Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-221644-1	AOC4-SV17-5	Solid	10/06/18 08:47	10/06/18 14:05
440-221644-2	AOC4-SV17-15	Solid	10/06/18 09:06	10/06/18 14:05
440-221644-3	TB-20181006	Water	10/06/18 10:15	10/06/18 14:05
440-221644-4	AOC4-SV16-5	Solid	10/06/18 10:24	10/06/18 14:05
440-221644-5	AOC4-SV16-5D	Solid	10/06/18 10:30	10/06/18 14:05
440-221644-6	AOC4-SV16-15	Solid	10/06/18 10:45	10/06/18 14:05
440-221644-7	EB-20181006	Water	10/06/18 11:00	10/06/18 14:05

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Job ID: 440-221644-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-221644-1

Comments

No additional comments.

Receipt

The samples were received on 10/6/2018 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA

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

GC VOA

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

GC Semi VOA

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-504060 and analytical batch 440-504496. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: AOC4-SV17-5 (440-221644-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-503698 and analytical batch 440-504021. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

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

Organic Prep

No 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.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5

Lab Sample ID: 440-221644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C13-C22)	3.5	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
ORO (C23-C40)	10		5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV17-15

Lab Sample ID: 440-221644-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	3.4	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: TB-20181006

Lab Sample ID: 440-221644-3

No Detections.

Client Sample ID: AOC4-SV16-5

Lab Sample ID: 440-221644-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.3	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	6.5		5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

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

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5

Lab Sample ID: 440-221644-1

Date Collected: 10/06/18 08:47

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromobenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromochloromethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromodichloromethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromoform	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Carbon tetrachloride	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chloroethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chloroform	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chloromethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
2-Chlorotoluene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
4-Chlorotoluene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
cis-1,2-Dichloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
cis-1,3-Dichloropropene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Dibromochloromethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dibromoethane (EDB)	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Dibromomethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dichlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,3-Dichlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,4-Dichlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Dichlorodifluoromethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1-Dichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1-Dichloroethene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dichloropropane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,3-Dichloropropane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1-Dichloropropene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Ethylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Hexachlorobutadiene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Isopropylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Methylene Chloride	ND		1.9	4.7	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Methyl-t-Butyl Ether (MTBE)	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
m,p-Xylene	ND		3.8	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Naphthalene	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
n-Butylbenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
N-Propylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
o-Xylene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
p-Isopropyltoluene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
sec-Butylbenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Styrene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
tert-Butylbenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,1,2-Tetrachloroethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Tetrachloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Toluene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
trans-1,2-Dichloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5

Lab Sample ID: 440-221644-1

Date Collected: 10/06/18 08:47

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,3-Trichlorobenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,1-Trichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,2-Trichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Trichloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Trichlorofluoromethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Vinyl chloride	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		79 - 120	10/06/18 20:00	10/09/18 11:46	1
Dibromofluoromethane (Surr)	98		60 - 120	10/06/18 20:00	10/09/18 11:46	1
Toluene-d8 (Surr)	100		79 - 123	10/06/18 20:00	10/09/18 11:46	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	-		10/14/18 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		65 - 140					10/14/18 12:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	3.5	J	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 16:30	1
ORO (C23-C40)	10		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140				10/11/18 06:50	10/11/18 16:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	41	X	45 - 120				10/11/18 07:11	10/12/18 14:42	

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-15

Lab Sample ID: 440-221644-2

Date Collected: 10/06/18 09:06

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromobenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromochloromethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromodichloromethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromoform	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Carbon tetrachloride	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chloroethane	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chloroform	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chloromethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
2-Chlorotoluene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
4-Chlorotoluene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
cis-1,2-Dichloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
cis-1,3-Dichloropropene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Dibromochloromethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dibromoethane (EDB)	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Dibromomethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dichlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,3-Dichlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,4-Dichlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Dichlorodifluoromethane	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1-Dichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1-Dichloroethene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dichloropropane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,3-Dichloropropane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1-Dichloropropene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Ethylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Hexachlorobutadiene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Isopropylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Methylene Chloride	ND		18	4.4	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Methyl-t-Butyl Ether (MTBE)	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
m,p-Xylene	ND		3.5	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Naphthalene	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
n-Butylbenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
N-Propylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
o-Xylene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
p-Isopropyltoluene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
sec-Butylbenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Styrene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
tert-Butylbenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Tetrachloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Toluene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
trans-1,2-Dichloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-15

Lab Sample ID: 440-221644-2

Date Collected: 10/06/18 09:06

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,3-Trichlorobenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,1-Trichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,2-Trichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Trichloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Trichlorofluoromethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Vinyl chloride	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		79 - 120	10/06/18 20:00	10/09/18 12:13	1
Dibromofluoromethane (Surr)	102		60 - 120	10/06/18 20:00	10/09/18 12:13	1
Toluene-d8 (Surr)	93		79 - 123	10/06/18 20:00	10/09/18 12:13	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			10/14/18 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		65 - 140		10/14/18 13:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 20:37	1
ORO (C23-C40)	3.4 J		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	64		40 - 140	10/11/18 06:50	10/11/18 20:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1221	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1232	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1242	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1248	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1254	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1260	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	52		45 - 120	10/11/18 07:11	10/11/18 20:30	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: TB-20181006

Lab Sample ID: 440-221644-3

Date Collected: 10/06/18 10:15

Matrix: Water

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromoform	ND		1.0	0.40	ug/L			10/13/18 17:16	1
Bromomethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			10/13/18 17:16	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Chloroethane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
Chloroform	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Chloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/13/18 17:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Dibromomethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/13/18 17:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/13/18 17:16	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/13/18 17:16	1
Naphthalene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
n-Butylbenzene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
o-Xylene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Styrene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Toluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: TB-20181006

Lab Sample ID: 440-221644-3

Date Collected: 10/06/18 10:15

Matrix: Water

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Trichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/13/18 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		10/13/18 17:16	1
Dibromofluoromethane (Surr)	104		76 - 132		10/13/18 17:16	1
Toluene-d8 (Surr)	100		80 - 128		10/13/18 17:16	1

Client Sample ID: AOC4-SV16-5

Lab Sample ID: 440-221644-4

Date Collected: 10/06/18 10:24

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromobenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromochloromethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromodichloromethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromoform	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
2-Butanone (MEK)	ND		9.3	4.7	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Carbon tetrachloride	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chloroethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chloroform	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chloromethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
2-Chlorotoluene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
4-Chlorotoluene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
cis-1,2-Dichloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
cis-1,3-Dichloropropene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Dibromochloromethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dibromoethane (EDB)	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Dibromomethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dichlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,3-Dichlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,4-Dichlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Dichlorodifluoromethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1-Dichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1-Dichloroethene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5

Lab Sample ID: 440-221644-4

Date Collected: 10/06/18 10:24

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,3-Dichloropropane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
2,2-Dichloropropane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1-Dichloropropene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Ethylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Hexachlorobutadiene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Isopropylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Methylene Chloride	ND		19	4.7	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Methyl-t-Butyl Ether (MTBE)	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
m,p-Xylene	ND		3.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Naphthalene	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
n-Butylbenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
N-Propylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
o-Xylene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
p-Isopropyltoluene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
sec-Butylbenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Styrene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
tert-Butylbenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,1,2-Tetrachloroethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Tetrachloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Toluene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
trans-1,2-Dichloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
trans-1,3-Dichloropropene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,3-Trichlorobenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,4-Trichlorobenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,1-Trichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,2-Trichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Trichloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Trichlorofluoromethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,3-Trichloropropane	ND		9.3	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,4-Trimethylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,3,5-Trimethylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Vinyl chloride	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		79 - 120	10/06/18 20:00	10/09/18 12:40	1
Dibromofluoromethane (Surr)	104		60 - 120	10/06/18 20:00	10/09/18 12:40	1
Toluene-d8 (Surr)	93		79 - 123	10/06/18 20:00	10/09/18 12:40	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			10/14/18 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		65 - 140		10/14/18 14:08	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 18:54	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5

Lab Sample ID: 440-221644-4

Date Collected: 10/06/18 10:24

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C23-C40)	4.3	J	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	66		40 - 140				10/11/18 06:50	10/11/18 18:54	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	48		45 - 120				10/11/18 07:11	10/12/18 14:55	1

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Date Collected: 10/06/18 10:30

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromobenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromochloromethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromodichloromethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromoform	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Carbon tetrachloride	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chloroethane	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chloroform	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chloromethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
2-Chlorotoluene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
4-Chlorotoluene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
cis-1,2-Dichloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
cis-1,3-Dichloropropene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Dibromochloromethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dibromoethane (EDB)	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Dibromomethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dichlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,3-Dichlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,4-Dichlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Dichlorodifluoromethane	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1-Dichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1-Dichloroethene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Date Collected: 10/06/18 10:30

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,3-Dichloropropane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1-Dichloropropene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Ethylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Hexachlorobutadiene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Isopropylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Methylene Chloride	ND		18	4.6	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Methyl-t-Butyl Ether (MTBE)	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
m,p-Xylene	ND		3.7	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Naphthalene	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
n-Butylbenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
N-Propylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
o-Xylene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
p-Isopropyltoluene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
sec-Butylbenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Styrene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
tert-Butylbenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,1,2-Tetrachloroethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Tetrachloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Toluene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
trans-1,2-Dichloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
trans-1,3-Dichloropropene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,3-Trichlorobenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,1-Trichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,2-Trichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Trichloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Trichlorofluoromethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Vinyl chloride	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		79 - 120	10/06/18 20:00	10/09/18 13:34	1
Dibromofluoromethane (Surr)	102		60 - 120	10/06/18 20:00	10/09/18 13:34	1
Toluene-d8 (Surr)	93		79 - 123	10/06/18 20:00	10/09/18 13:34	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			10/13/18 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		65 - 140		10/13/18 22:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:35	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Date Collected: 10/06/18 10:30

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C23-C40)	6.5		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140				10/11/18 06:50	10/11/18 19:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		45 - 120				10/11/18 07:11	10/11/18 20:57	1

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromobenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromochloromethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromodichloromethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromoform	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Carbon tetrachloride	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chloroethane	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chloroform	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chloromethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
2-Chlorotoluene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
4-Chlorotoluene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
cis-1,2-Dichloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
cis-1,3-Dichloropropene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Dibromochloromethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dibromoethane (EDB)	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Dibromomethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dichlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,3-Dichlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,4-Dichlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Dichlorodifluoromethane	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1-Dichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1-Dichloroethene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,3-Dichloropropane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1-Dichloropropene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Ethylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Hexachlorobutadiene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Isopropylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Methylene Chloride	ND		17	4.1	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
m,p-Xylene	ND		3.3	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Naphthalene	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
n-Butylbenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
N-Propylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
o-Xylene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
p-Isopropyltoluene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
sec-Butylbenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Styrene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
tert-Butylbenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Tetrachloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Toluene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
trans-1,2-Dichloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
trans-1,3-Dichloropropene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,3-Trichlorobenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,1-Trichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,2-Trichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Trichloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Trichlorofluoromethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Vinyl chloride	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		79 - 120	10/06/18 20:00	10/09/18 14:01	1
Dibromofluoromethane (Surr)	101		60 - 120	10/06/18 20:00	10/09/18 14:01	1
Toluene-d8 (Surr)	97		79 - 123	10/06/18 20:00	10/09/18 14:01	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			10/14/18 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		65 - 140		10/14/18 14:36	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:55	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C23-C40)	3.2	J	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	89		40 - 140				10/11/18 06:50	10/11/18 19:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1221	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1232	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1242	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1248	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1254	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1260	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	56		45 - 120				10/11/18 07:11	10/11/18 21:10	1

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

Date Collected: 10/06/18 11:00

Matrix: Water

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromoform	ND		1.0	0.40	ug/L			10/13/18 17:45	1
Bromomethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			10/13/18 17:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Chloroethane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
Chloroform	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Chloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/13/18 17:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Dibromomethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

Date Collected: 10/06/18 11:00

Matrix: Water

Date Received: 10/06/18 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/13/18 17:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/13/18 17:45	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/13/18 17:45	1
Naphthalene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
n-Butylbenzene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
o-Xylene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Styrene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Toluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Trichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120					10/13/18 17:45	1
Dibromofluoromethane (Surr)	101		76 - 132					10/13/18 17:45	1
Toluene-d8 (Surr)	99		80 - 128					10/13/18 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			10/14/18 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		65 - 140					10/14/18 14:49	1

TestAmerica Irvine

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

Date Collected: 10/06/18 11:00

Matrix: Water

Date Received: 10/06/18 14:05

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.52	0.26	mg/L		10/10/18 10:33	10/11/18 21:05	1
ORO (C23-C40)	ND		0.52	0.26	mg/L		10/10/18 10:33	10/11/18 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	84		45 - 120				10/10/18 10:33	10/11/18 21:05	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1221	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1232	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1242	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1248	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1254	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1260	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	93		26 - 115				10/09/18 06:24	10/10/18 13:19	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (79-120)	DBFM (60-120)	TOL (79-123)
440-221605-B-9 MS	Matrix Spike	96	104	95
440-221605-B-9 MSD	Matrix Spike Duplicate	101	102	93
440-221644-1	AOC4-SV17-5	112	98	100
440-221644-2	AOC4-SV17-15	86	102	93
440-221644-4	AOC4-SV16-5	92	104	93
440-221644-5	AOC4-SV16-5D	97	102	93
440-221644-6	AOC4-SV16-15	88	101	97
LCS 440-503694/6	Lab Control Sample	96	99	90
MB 440-503694/5	Method Blank	93	98	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (76-132)	TOL (80-128)
440-221644-3	TB-20181006	97	104	100
440-221644-7	EB-20181006	94	101	99
440-221818-A-18 MS	Matrix Spike	94	97	100
440-221818-A-18 MSD	Matrix Spike Duplicate	95	97	100
LCS 440-504839/5	Lab Control Sample	96	96	101
MB 440-504839/4	Method Blank	97	98	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (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)		
440-221644-1	AOC4-SV17-5	91		
440-221644-1 MS	AOC4-SV17-5	95		
440-221644-1 MSD	AOC4-SV17-5	113		
440-221644-2	AOC4-SV17-15	100		
440-221644-4	AOC4-SV16-5	94		
440-221644-5	AOC4-SV16-5D	68		
440-221644-6	AOC4-SV16-15	97		
440-221711-A-1 MS	Matrix Spike	97		
440-221711-A-1 MSD	Matrix Spike Duplicate	100		
LCS 440-504895/3	Lab Control Sample	116		
LCS 440-505023/3	Lab Control Sample	111		

TestAmerica Irvine

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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)					
LCSD 440-504895/52	Lab Control Sample Dup	125					
LCSD 440-505023/4	Lab Control Sample Dup	121					
MB 440-504895/53	Method Blank	108					
MB 440-505023/5	Method Blank	98					
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1 (65-140)					
440-221398-B-3 MS	Matrix Spike	108					
440-221398-B-3 MSD	Matrix Spike Duplicate	107					
440-221644-7	EB-20181006	98					
LCS 440-505024/3	Lab Control Sample	104					
MB 440-505024/4	Method Blank	100					
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCN1 (40-140)					
440-221644-1	AOC4-SV17-5	90					
440-221644-2	AOC4-SV17-15	64					
440-221644-4	AOC4-SV16-5	66					
440-221644-5	AOC4-SV16-5D	90					
440-221644-6	AOC4-SV16-15	89					
440-221792-G-2-D MS	Matrix Spike	90					
440-221792-G-2-E MSD	Matrix Spike Duplicate	88					
LCS 440-504282/2-A	Lab Control Sample	87					
MB 440-504282/1-A	Method Blank	98					
Surrogate Legend							
OTCN = n-Octacosane							

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCN1 (45-120)					
440-221644-7	EB-20181006	84					
LCS 440-504060/2-A	Lab Control Sample	90					

TestAmerica Irvine

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCN1 (45-120)					
LCSD 440-504060/3-A	Lab Control Sample Dup	79					
MB 440-504060/1-A	Method Blank	74					
Surrogate Legend							
OTCN = n-Octacosane							

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCB2 (45-120)					
440-221644-1	AOC4-SV17-5	41 X					
440-221644-2	AOC4-SV17-15	52					
440-221644-4	AOC4-SV16-5	48					
440-221644-5	AOC4-SV16-5D	55					
440-221644-6	AOC4-SV16-15	56					
440-221812-A-66-B MS	Matrix Spike	88					
440-221812-A-66-E MSD	Matrix Spike Duplicate	89					
LCS 440-504287/2-A	Lab Control Sample	95					
MB 440-504287/1-A	Method Blank	105					
Surrogate Legend							
DCB = DCB Decachlorobiphenyl (Surr)							

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCB2 (26-115)					
440-221644-7	EB-20181006	93					
LCS 440-503698/4-A	Lab Control Sample	77					
LCSD 440-503698/5-A	Lab Control Sample Dup	77					
MB 440-503698/1-A	Method Blank	93					
Surrogate Legend							
DCB = DCB Decachlorobiphenyl (Surr)							

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System 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: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5

Date Collected: 10/06/18 08:47

Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-1

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	5035			5.32 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 11:46	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	505023	10/14/18 12:15	YCL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 16:30	LMB	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/12/18 14:42	JM	TAL IRV

Client Sample ID: AOC4-SV17-15

Date Collected: 10/06/18 09:06

Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-2

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	5035			5.66 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 12:13	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	505023	10/14/18 13:40	YCL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 20:37	LMB	TAL IRV
Total/NA	Prep	3546			15.19 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/11/18 20:30	JM	TAL IRV

Client Sample ID: TB-20181006

Date Collected: 10/06/18 10:15

Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-3

Matrix: Water

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	10 mL	10 mL	504839	10/13/18 17:16	RM	TAL IRV

Client Sample ID: AOC4-SV16-5

Date Collected: 10/06/18 10:24

Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.35 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 12:40	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	505023	10/14/18 14:08	YCL	TAL IRV
Total/NA	Prep	3546			15.02 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 18:54	LMB	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/12/18 14:55	JM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Date Collected: 10/06/18 10:30

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.41 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 13:34	AYL	TAL IRV
Total/NA	Analysis	8015B		1	4.98 g	10 mL	504895	10/13/18 22:22	IM	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 19:35	LMB	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/11/18 20:57	JM	TAL IRV

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.04 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 14:01	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	505023	10/14/18 14:36	YCL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 19:55	LMB	TAL IRV
Total/NA	Prep	3546			15.41 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/11/18 21:10	JM	TAL IRV

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

Date Collected: 10/06/18 11:00

Matrix: Water

Date Received: 10/06/18 14:05

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	10 mL	10 mL	504839	10/13/18 17:45	RM	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	505024	10/14/18 14:49	YCL	TAL IRV
Total/NA	Prep	3510C			240 mL	1 mL	504060	10/10/18 10:33	HCK	TAL IRV
Total/NA	Analysis	8015B		1			504496	10/11/18 21:05	LMB	TAL IRV
Total/NA	Prep	3510C			250 mL	2 mL	503698	10/09/18 06:24	L1H	TAL IRV
Total/NA	Analysis	8082		1			504021	10/10/18 13:19	JM	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: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-503694/5

Matrix: Solid

Analysis Batch: 503694

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Bromobenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Bromoform	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			10/09/18 09:04	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Chloroethane	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
Chloroform	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Dibromomethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Methylene Chloride	ND		20	5.0	ug/Kg			10/09/18 09:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			10/09/18 09:04	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
o-Xylene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Styrene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Toluene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-503694/5

Matrix: Solid

Analysis Batch: 503694

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Trichloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/09/18 09:04	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		79 - 120		10/09/18 09:04	1
Dibromofluoromethane (Surr)	98		60 - 120		10/09/18 09:04	1
Toluene-d8 (Surr)	94		79 - 123		10/09/18 09:04	1

Lab Sample ID: LCS 440-503694/6

Matrix: Solid

Analysis Batch: 503694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.3		ug/Kg		101	65 - 120
Bromobenzene	50.0	52.9		ug/Kg		106	75 - 120
Bromochloromethane	50.0	54.0		ug/Kg		108	70 - 135
Bromodichloromethane	50.0	51.6		ug/Kg		103	70 - 135
Bromoform	50.0	49.7		ug/Kg		99	55 - 135
Bromomethane	50.0	44.3		ug/Kg		89	60 - 145
2-Butanone (MEK)	50.0	47.6		ug/Kg		95	40 - 145
Carbon tetrachloride	50.0	50.4		ug/Kg		101	65 - 140
Chlorobenzene	50.0	51.0		ug/Kg		102	75 - 120
Chloroethane	50.0	40.7		ug/Kg		81	60 - 140
Chloroform	50.0	47.4		ug/Kg		95	70 - 130
Chloromethane	50.0	39.7		ug/Kg		79	45 - 145
2-Chlorotoluene	50.0	51.8		ug/Kg		104	70 - 125
4-Chlorotoluene	50.0	52.1		ug/Kg		104	75 - 125
cis-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	75 - 125
Dibromochloromethane	50.0	54.2		ug/Kg		108	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/Kg		104	50 - 135
1,2-Dibromoethane (EDB)	50.0	50.9		ug/Kg		102	70 - 130
Dibromomethane	50.0	52.1		ug/Kg		104	70 - 130
1,2-Dichlorobenzene	50.0	55.7		ug/Kg		111	75 - 120
1,3-Dichlorobenzene	50.0	52.3		ug/Kg		105	75 - 125
1,4-Dichlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
Dichlorodifluoromethane	50.0	29.3		ug/Kg		59	35 - 160
1,1-Dichloroethane	50.0	49.6		ug/Kg		99	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: LCS 440-503694/6

Matrix: Solid

Analysis Batch: 503694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	52.2		ug/Kg		104	60 - 140
1,1-Dichloroethene	50.0	43.7		ug/Kg		87	70 - 125
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	70 - 130
1,3-Dichloropropane	50.0	53.4		ug/Kg		107	70 - 125
2,2-Dichloropropane	50.0	49.1		ug/Kg		98	60 - 145
1,1-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 130
Ethylbenzene	50.0	46.5		ug/Kg		93	70 - 125
Hexachlorobutadiene	50.0	52.7		ug/Kg		105	60 - 135
Isopropylbenzene	50.0	46.7		ug/Kg		93	75 - 130
Methylene Chloride	50.0	49.0		ug/Kg		98	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	48.6		ug/Kg		97	60 - 140
m,p-Xylene	50.0	47.7		ug/Kg		95	70 - 125
Naphthalene	50.0	54.3		ug/Kg		109	55 - 135
n-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 130
N-Propylbenzene	50.0	48.4		ug/Kg		97	70 - 130
o-Xylene	50.0	47.6		ug/Kg		95	70 - 125
p-Isopropyltoluene	50.0	50.8		ug/Kg		102	75 - 125
sec-Butylbenzene	50.0	49.3		ug/Kg		99	70 - 125
Styrene	50.0	48.3		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 125
1,1,1,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	57.2		ug/Kg		114	55 - 140
Tetrachloroethene	50.0	45.0		ug/Kg		90	70 - 125
Toluene	50.0	47.7		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	44.9		ug/Kg		90	70 - 125
trans-1,3-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 135
1,2,3-Trichlorobenzene	50.0	57.0		ug/Kg		114	60 - 130
1,2,4-Trichlorobenzene	50.0	55.8		ug/Kg		112	70 - 135
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	65 - 135
1,1,2-Trichloroethane	50.0	55.7		ug/Kg		111	65 - 135
Trichloroethene	50.0	53.9		ug/Kg		108	70 - 125
Trichlorofluoromethane	50.0	40.1		ug/Kg		80	60 - 145
1,2,3-Trichloropropane	50.0	55.0		ug/Kg		110	60 - 135
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 125
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	70 - 125
Vinyl chloride	50.0	43.1		ug/Kg		86	55 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		79 - 120
Dibromofluoromethane (Surr)	99		60 - 120
Toluene-d8 (Surr)	90		79 - 123

Lab Sample ID: 440-221605-B-9 MS

Matrix: Solid

Analysis Batch: 503694

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		49.4	55.0		ug/Kg		111	65 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: 440-221605-B-9 MS

Matrix: Solid

Analysis Batch: 503694

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
Bromobenzene	ND		49.4	58.0		ug/Kg		117	65 - 140
Bromochloromethane	ND		49.4	58.4		ug/Kg		118	65 - 145
Bromodichloromethane	ND		49.4	58.0		ug/Kg		117	65 - 145
Bromoform	ND		49.4	59.2		ug/Kg		120	50 - 145
Bromomethane	ND		49.4	52.5		ug/Kg		106	60 - 155
2-Butanone (MEK)	ND		49.4	63.6		ug/Kg		129	25 - 170
Carbon tetrachloride	ND		49.4	53.5		ug/Kg		108	60 - 145
Chlorobenzene	ND		49.4	57.9		ug/Kg		117	70 - 130
Chloroethane	ND		49.4	45.7		ug/Kg		93	60 - 150
Chloroform	ND		49.4	53.5		ug/Kg		108	65 - 135
Chloromethane	ND	F2	49.4	49.3		ug/Kg		100	40 - 145
2-Chlorotoluene	ND		49.4	55.3		ug/Kg		112	60 - 135
4-Chlorotoluene	ND		49.4	56.2		ug/Kg		114	65 - 135
cis-1,2-Dichloroethene	ND		49.4	54.0		ug/Kg		109	65 - 135
cis-1,3-Dichloropropene	ND		49.4	62.2		ug/Kg		126	70 - 135
Dibromochloromethane	ND		49.4	68.1		ug/Kg		138	60 - 145
1,2-Dibromo-3-Chloropropane	ND		49.4	60.9		ug/Kg		123	40 - 150
1,2-Dibromoethane (EDB)	ND		49.4	62.1		ug/Kg		126	65 - 140
Dibromomethane	ND		49.4	60.6		ug/Kg		123	65 - 140
1,2-Dichlorobenzene	ND		49.4	54.9		ug/Kg		111	70 - 130
1,3-Dichlorobenzene	ND		49.4	54.8		ug/Kg		111	70 - 130
1,4-Dichlorobenzene	ND		49.4	57.5		ug/Kg		116	70 - 130
Dichlorodifluoromethane	ND	F2	49.4	39.1		ug/Kg		79	30 - 160
1,1-Dichloroethane	ND		49.4	55.5		ug/Kg		112	65 - 135
1,2-Dichloroethane	ND		49.4	58.7		ug/Kg		119	60 - 150
1,1-Dichloroethene	ND		49.4	54.3		ug/Kg		110	65 - 135
1,2-Dichloropropane	ND		49.4	56.6		ug/Kg		115	65 - 130
1,3-Dichloropropane	ND		49.4	65.1		ug/Kg		132	65 - 140
2,2-Dichloropropane	ND		49.4	56.2		ug/Kg		114	65 - 150
1,1-Dichloropropene	ND		49.4	51.7		ug/Kg		105	65 - 135
Ethylbenzene	ND		49.4	52.8		ug/Kg		107	70 - 135
Hexachlorobutadiene	ND		49.4	37.9		ug/Kg		77	50 - 145
Isopropylbenzene	ND		49.4	52.2		ug/Kg		106	70 - 145
Methylene Chloride	ND		49.4	60.4		ug/Kg		122	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.4	55.3		ug/Kg		112	55 - 155
m,p-Xylene	ND		49.4	52.9		ug/Kg		107	70 - 130
Naphthalene	ND		49.4	55.4		ug/Kg		112	40 - 150
n-Butylbenzene	ND		49.4	46.6		ug/Kg		94	55 - 145
N-Propylbenzene	ND		49.4	52.1		ug/Kg		105	65 - 140
o-Xylene	ND		49.4	55.6		ug/Kg		113	65 - 130
p-Isopropyltoluene	ND		49.4	52.6		ug/Kg		107	60 - 140
sec-Butylbenzene	ND		49.4	51.2		ug/Kg		104	60 - 135
Styrene	ND		49.4	51.6		ug/Kg		104	70 - 140
tert-Butylbenzene	ND		49.4	53.8		ug/Kg		109	60 - 140
1,1,1,2-Tetrachloroethane	ND		49.4	56.2		ug/Kg		114	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.4	66.7		ug/Kg		135	40 - 160
Tetrachloroethene	ND		49.4	54.0		ug/Kg		109	65 - 135
Toluene	ND		49.4	55.8		ug/Kg		113	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: 440-221605-B-9 MS

Matrix: Solid

Analysis Batch: 503694

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
trans-1,2-Dichloroethene	ND		49.4	53.2		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		49.4	60.4		ug/Kg		122	60 - 145
1,2,3-Trichlorobenzene	ND		49.4	48.4		ug/Kg		98	45 - 145
1,2,4-Trichlorobenzene	ND		49.4	49.6		ug/Kg		100	50 - 140
1,1,1-Trichloroethane	ND		49.4	52.6		ug/Kg		106	65 - 145
1,1,2-Trichloroethane	ND	F1	49.4	71.7	F1	ug/Kg		145	65 - 140
Trichloroethene	ND		49.4	58.1		ug/Kg		118	65 - 140
Trichlorofluoromethane	ND		49.4	47.8		ug/Kg		97	55 - 155
1,2,3-Trichloropropane	ND		49.4	69.5		ug/Kg		141	50 - 150
1,2,4-Trimethylbenzene	ND		49.4	54.0		ug/Kg		109	65 - 140
1,3,5-Trimethylbenzene	ND		49.4	53.4		ug/Kg		108	65 - 135
Vinyl chloride	ND		49.4	52.1		ug/Kg		105	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		79 - 120
Dibromofluoromethane (Surr)	104		60 - 120
Toluene-d8 (Surr)	95		79 - 123

Lab Sample ID: 440-221605-B-9 MSD

Matrix: Solid

Analysis Batch: 503694

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
Benzene	ND		49.4	51.1		ug/Kg		103	65 - 130	7	20
Bromobenzene	ND		49.4	57.4		ug/Kg		116	65 - 140	1	25
Bromochloromethane	ND		49.4	54.7		ug/Kg		111	65 - 145	6	25
Bromodichloromethane	ND		49.4	50.9		ug/Kg		103	65 - 145	13	20
Bromoform	ND		49.4	58.1		ug/Kg		118	50 - 145	2	30
Bromomethane	ND		49.4	42.7		ug/Kg		86	60 - 155	20	25
2-Butanone (MEK)	ND		49.4	54.0		ug/Kg		109	25 - 170	16	40
Carbon tetrachloride	ND		49.4	49.5		ug/Kg		100	60 - 145	8	25
Chlorobenzene	ND		49.4	52.5		ug/Kg		106	70 - 130	10	25
Chloroethane	ND		49.4	39.7		ug/Kg		80	60 - 150	14	25
Chloroform	ND		49.4	47.9		ug/Kg		97	65 - 135	11	20
Chloromethane	ND	F2	49.4	33.2	F2	ug/Kg		67	40 - 145	39	25
2-Chlorotoluene	ND		49.4	52.4		ug/Kg		106	60 - 135	5	25
4-Chlorotoluene	ND		49.4	50.5		ug/Kg		102	65 - 135	11	25
cis-1,2-Dichloroethene	ND		49.4	50.3		ug/Kg		102	65 - 135	7	25
cis-1,3-Dichloropropene	ND		49.4	57.7		ug/Kg		117	70 - 135	7	25
Dibromochloromethane	ND		49.4	62.4		ug/Kg		126	60 - 145	9	25
1,2-Dibromo-3-Chloropropane	ND		49.4	60.5		ug/Kg		122	40 - 150	1	30
1,2-Dibromoethane (EDB)	ND		49.4	55.8		ug/Kg		113	65 - 140	11	25
Dibromomethane	ND		49.4	55.6		ug/Kg		113	65 - 140	9	25
1,2-Dichlorobenzene	ND		49.4	49.7		ug/Kg		101	70 - 130	10	25
1,3-Dichlorobenzene	ND		49.4	49.0		ug/Kg		99	70 - 130	11	25
1,4-Dichlorobenzene	ND		49.4	52.6		ug/Kg		106	70 - 130	9	25
Dichlorodifluoromethane	ND	F2	49.4	25.2	F2	ug/Kg		51	30 - 160	43	35
1,1-Dichloroethane	ND		49.4	50.8		ug/Kg		103	65 - 135	9	25

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: 440-221605-B-9 MSD

Matrix: Solid

Analysis Batch: 503694

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
1,2-Dichloroethane	ND		49.4	52.6		ug/Kg		107	60 - 150	11	25
1,1-Dichloroethene	ND		49.4	48.3		ug/Kg		98	65 - 135	12	25
1,2-Dichloropropane	ND		49.4	53.5		ug/Kg		108	65 - 130	6	20
1,3-Dichloropropane	ND		49.4	59.2		ug/Kg		120	65 - 140	9	25
2,2-Dichloropropane	ND		49.4	51.0		ug/Kg		103	65 - 150	10	25
1,1-Dichloropropene	ND		49.4	49.8		ug/Kg		101	65 - 135	4	20
Ethylbenzene	ND		49.4	47.3		ug/Kg		96	70 - 135	11	25
Hexachlorobutadiene	ND		49.4	31.3		ug/Kg		63	50 - 145	19	35
Isopropylbenzene	ND		49.4	46.5		ug/Kg		94	70 - 145	12	25
Methylene Chloride	ND		49.4	57.3		ug/Kg		116	55 - 145	5	25
Methyl-t-Butyl Ether (MTBE)	ND		49.4	49.9		ug/Kg		101	55 - 155	10	35
m,p-Xylene	ND		49.4	46.5		ug/Kg		94	70 - 130	13	25
Naphthalene	ND		49.4	47.7		ug/Kg		97	40 - 150	15	40
n-Butylbenzene	ND		49.4	40.8		ug/Kg		83	55 - 145	13	30
N-Propylbenzene	ND		49.4	48.4		ug/Kg		98	65 - 140	7	25
o-Xylene	ND		49.4	50.3		ug/Kg		102	65 - 130	10	25
p-Isopropyltoluene	ND		49.4	48.1		ug/Kg		97	60 - 140	9	25
sec-Butylbenzene	ND		49.4	45.5		ug/Kg		92	60 - 135	12	25
Styrene	ND		49.4	47.4		ug/Kg		96	70 - 140	9	25
tert-Butylbenzene	ND		49.4	49.8		ug/Kg		101	60 - 140	8	25
1,1,1,2-Tetrachloroethane	ND		49.4	47.6		ug/Kg		96	65 - 145	17	20
1,1,2,2-Tetrachloroethane	ND		49.4	68.5		ug/Kg		139	40 - 160	3	30
Tetrachloroethene	ND		49.4	51.0		ug/Kg		103	65 - 135	6	25
Toluene	ND		49.4	50.1		ug/Kg		101	70 - 130	11	20
trans-1,2-Dichloroethene	ND		49.4	47.6		ug/Kg		96	70 - 135	11	25
trans-1,3-Dichloropropene	ND		49.4	52.0		ug/Kg		105	60 - 145	15	25
1,2,3-Trichlorobenzene	ND		49.4	41.0		ug/Kg		83	45 - 145	17	30
1,2,4-Trichlorobenzene	ND		49.4	42.7		ug/Kg		86	50 - 140	15	30
1,1,1-Trichloroethane	ND		49.4	46.8		ug/Kg		95	65 - 145	12	20
1,1,2-Trichloroethane	ND	F1	49.4	58.3		ug/Kg		118	65 - 140	21	30
Trichloroethene	ND		49.4	55.7		ug/Kg		113	65 - 140	4	25
Trichlorofluoromethane	ND		49.4	40.6		ug/Kg		82	55 - 155	16	25
1,2,3-Trichloropropane	ND		49.4	65.5		ug/Kg		132	50 - 150	6	30
1,2,4-Trimethylbenzene	ND		49.4	49.8		ug/Kg		101	65 - 140	8	25
1,3,5-Trimethylbenzene	ND		49.4	49.1		ug/Kg		99	65 - 135	8	25
Vinyl chloride	ND		49.4	43.0		ug/Kg		87	55 - 140	19	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		79 - 120
Dibromofluoromethane (Surr)	102		60 - 120
Toluene-d8 (Surr)	93		79 - 123

Lab Sample ID: MB 440-504839/4

Matrix: Water

Analysis Batch: 504839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-504839/4

Matrix: Water

Analysis Batch: 504839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Bromoform	ND		1.0	0.40	ug/L			10/13/18 09:02	1
Bromomethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			10/13/18 09:02	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Chloroethane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
Chloroform	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Chloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/13/18 09:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Dibromomethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/13/18 09:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/13/18 09:02	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/13/18 09:02	1
Naphthalene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
n-Butylbenzene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
o-Xylene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Styrene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Toluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-504839/4

Matrix: Water

Analysis Batch: 504839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Trichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/13/18 09:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		10/13/18 09:02	1
Dibromofluoromethane (Surr)	98		76 - 132		10/13/18 09:02	1
Toluene-d8 (Surr)	104		80 - 128		10/13/18 09:02	1

Lab Sample ID: LCS 440-504839/5

Matrix: Water

Analysis Batch: 504839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.5		ug/L		102	68 - 130
Bromobenzene	25.0	23.7		ug/L		95	70 - 130
Bromochloromethane	25.0	25.8		ug/L		103	70 - 130
Bromodichloromethane	25.0	23.8		ug/L		95	70 - 132
Bromoform	25.0	21.1		ug/L		84	60 - 148
Bromomethane	25.0	21.6		ug/L		86	64 - 139
2-Butanone (MEK)	25.0	26.1		ug/L		105	44 - 150
Carbon tetrachloride	25.0	23.5		ug/L		94	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	21.8		ug/L		87	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	21.2		ug/L		85	47 - 140
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.6		ug/L		106	70 - 130
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 133
Dibromochloromethane	25.0	25.4		ug/L		102	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.4		ug/L		97	70 - 130
Dibromomethane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	17.8		ug/L		71	29 - 150
1,1-Dichloroethane	25.0	25.5		ug/L		102	64 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: LCS 440-504839/5

Matrix: Water

Analysis Batch: 504839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	23.5		ug/L		94	57 - 138
1,1-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	26.5		ug/L		106	67 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	25.3		ug/L		101	68 - 141
1,1-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	19.9		ug/L		79	10 - 150
Isopropylbenzene	25.0	27.2		ug/L		109	70 - 136
Methylene Chloride	25.0	20.0		ug/L		80	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	23.7		ug/L		95	63 - 131
m,p-Xylene	25.0	26.5		ug/L		106	70 - 130
Naphthalene	25.0	26.2		ug/L		105	60 - 140
n-Butylbenzene	25.0	28.3		ug/L		113	65 - 150
N-Propylbenzene	25.0	28.1		ug/L		112	67 - 139
o-Xylene	25.0	27.6		ug/L		110	70 - 130
p-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 132
sec-Butylbenzene	25.0	27.6		ug/L		110	70 - 138
Styrene	25.0	23.8		ug/L		95	70 - 134
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	63 - 130
Tetrachloroethene	25.0	23.0		ug/L		92	70 - 130
Toluene	25.0	27.1		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 132
1,2,3-Trichlorobenzene	25.0	22.3		ug/L		89	60 - 140
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	60 - 140
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	25.4		ug/L		101	70 - 130
Trichloroethene	25.0	25.8		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	20.0		ug/L		80	60 - 150
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	63 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 135
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 136
Vinyl chloride	25.0	24.0		ug/L		96	59 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	96		76 - 132
Toluene-d8 (Surr)	101		80 - 128

Lab Sample ID: 440-221818-A-18 MS

Matrix: Water

Analysis Batch: 504839

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		250	264		ug/L		106	66 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: 440-221818-A-18 MS

Matrix: Water

Analysis Batch: 504839

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
Bromobenzene	ND		250	244		ug/L		98	70 - 130
Bromochloromethane	ND		250	270		ug/L		108	70 - 130
Bromodichloromethane	ND		250	251		ug/L		101	70 - 138
Bromoform	ND		250	219		ug/L		88	59 - 150
Bromomethane	ND		250	217		ug/L		87	62 - 131
2-Butanone (MEK)	ND		250	236		ug/L		94	48 - 140
Carbon tetrachloride	ND		250	242		ug/L		97	60 - 150
Chlorobenzene	ND		250	262		ug/L		105	70 - 130
Chloroethane	ND		250	222		ug/L		89	68 - 130
Chloroform	ND		250	245		ug/L		98	70 - 130
Chloromethane	ND		250	213		ug/L		85	39 - 144
2-Chlorotoluene	ND		250	270		ug/L		108	70 - 130
4-Chlorotoluene	ND		250	274		ug/L		109	70 - 130
cis-1,2-Dichloroethene	190		250	464		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		250	292		ug/L		117	70 - 133
Dibromochloromethane	ND		250	258		ug/L		103	70 - 148
1,2-Dibromo-3-Chloropropane	ND		250	223		ug/L		89	48 - 140
1,2-Dibromoethane (EDB)	ND		250	248		ug/L		99	70 - 131
Dibromomethane	ND		250	244		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		250	250		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		250	256		ug/L		102	70 - 130
1,4-Dichlorobenzene	ND		250	245		ug/L		98	70 - 130
Dichlorodifluoromethane	ND		250	177		ug/L		71	25 - 142
1,1-Dichloroethane	34		250	289		ug/L		102	65 - 130
1,2-Dichloroethane	ND		250	242		ug/L		97	56 - 146
1,1-Dichloroethene	44		250	305		ug/L		104	70 - 130
1,2-Dichloropropane	ND		250	275		ug/L		110	69 - 130
1,3-Dichloropropane	ND		250	259		ug/L		104	70 - 130
2,2-Dichloropropane	ND		250	254		ug/L		102	69 - 138
1,1-Dichloropropene	ND		250	276		ug/L		110	64 - 130
Ethylbenzene	ND		250	269		ug/L		108	70 - 130
Hexachlorobutadiene	ND		250	205		ug/L		82	10 - 150
Isopropylbenzene	ND		250	281		ug/L		112	70 - 132
Methylene Chloride	ND		250	203		ug/L		81	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		250	242		ug/L		97	70 - 130
m,p-Xylene	ND		250	276		ug/L		110	70 - 133
Naphthalene	ND		250	261		ug/L		105	60 - 140
n-Butylbenzene	ND		250	298		ug/L		119	61 - 149
N-Propylbenzene	ND		250	289		ug/L		115	66 - 135
o-Xylene	ND		250	286		ug/L		114	70 - 133
p-Isopropyltoluene	ND		250	280		ug/L		112	70 - 130
sec-Butylbenzene	ND		250	284		ug/L		114	67 - 134
Styrene	ND		250	251		ug/L		100	29 - 150
tert-Butylbenzene	ND		250	277		ug/L		111	70 - 130
1,1,1,2-Tetrachloroethane	ND		250	245		ug/L		98	60 - 149
1,1,2,2-Tetrachloroethane	ND		250	246		ug/L		98	63 - 130
Tetrachloroethene	8.8		250	242		ug/L		93	70 - 137
Toluene	ND		250	279		ug/L		111	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: 440-221818-A-18 MS

Matrix: Water

Analysis Batch: 504839

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
trans-1,2-Dichloroethene	3.4	J	250	292		ug/L		115	70 - 130
trans-1,3-Dichloropropene	ND		250	267		ug/L		107	70 - 138
1,2,3-Trichlorobenzene	ND		250	233		ug/L		93	60 - 140
1,2,4-Trichlorobenzene	ND		250	238		ug/L		95	60 - 140
1,1,1-Trichloroethane	ND		250	230		ug/L		92	70 - 130
1,1,2-Trichloroethane	2.8	J	250	265		ug/L		105	70 - 130
Trichloroethene	1000		250	1250	4	ug/L		88	70 - 130
Trichlorofluoromethane	ND		250	204		ug/L		82	60 - 150
1,2,3-Trichloropropane	ND		250	219		ug/L		88	60 - 130
1,2,4-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		250	272		ug/L		109	70 - 130
Vinyl chloride	18		250	260		ug/L		97	50 - 137

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	97		76 - 132
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: 440-221818-A-18 MSD

Matrix: Water

Analysis Batch: 504839

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
Benzene	ND		250	237		ug/L		95	66 - 130	11	20
Bromobenzene	ND		250	223		ug/L		89	70 - 130	9	20
Bromochloromethane	ND		250	239		ug/L		96	70 - 130	12	25
Bromodichloromethane	ND		250	228		ug/L		91	70 - 138	10	20
Bromoform	ND		250	193		ug/L		77	59 - 150	13	25
Bromomethane	ND		250	198		ug/L		79	62 - 131	9	25
2-Butanone (MEK)	ND		250	200		ug/L		80	48 - 140	16	40
Carbon tetrachloride	ND		250	211		ug/L		84	60 - 150	14	25
Chlorobenzene	ND		250	235		ug/L		94	70 - 130	11	20
Chloroethane	ND		250	202		ug/L		81	68 - 130	10	25
Chloroform	ND		250	222		ug/L		89	70 - 130	10	20
Chloromethane	ND		250	198		ug/L		79	39 - 144	7	25
2-Chlorotoluene	ND		250	246		ug/L		98	70 - 130	9	20
4-Chlorotoluene	ND		250	249		ug/L		99	70 - 130	10	20
cis-1,2-Dichloroethene	190		250	424		ug/L		95	70 - 130	9	20
cis-1,3-Dichloropropene	ND		250	259		ug/L		104	70 - 133	12	20
Dibromochloromethane	ND		250	232		ug/L		93	70 - 148	11	25
1,2-Dibromo-3-Chloropropane	ND		250	206		ug/L		82	48 - 140	8	30
1,2-Dibromoethane (EDB)	ND		250	222		ug/L		89	70 - 131	11	25
Dibromomethane	ND		250	218		ug/L		87	70 - 130	11	25
1,2-Dichlorobenzene	ND		250	229		ug/L		92	70 - 130	9	20
1,3-Dichlorobenzene	ND		250	232		ug/L		93	70 - 130	10	20
1,4-Dichlorobenzene	ND		250	222		ug/L		89	70 - 130	10	20
Dichlorodifluoromethane	ND		250	165		ug/L		66	25 - 142	7	30
1,1-Dichloroethane	34		250	261		ug/L		91	65 - 130	10	20

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: 440-221818-A-18 MSD

Matrix: Water

Analysis Batch: 504839

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
1,2-Dichloroethane	ND		250	218		ug/L		87	56 - 146	10	20
1,1-Dichloroethene	44		250	275		ug/L		92	70 - 130	10	20
1,2-Dichloropropane	ND		250	244		ug/L		98	69 - 130	12	20
1,3-Dichloropropane	ND		250	237		ug/L		95	70 - 130	9	25
2,2-Dichloropropane	ND		250	225		ug/L		90	69 - 138	12	25
1,1-Dichloropropene	ND		250	244		ug/L		98	64 - 130	12	20
Ethylbenzene	ND		250	238		ug/L		95	70 - 130	12	20
Hexachlorobutadiene	ND		250	185		ug/L		74	10 - 150	10	20
Isopropylbenzene	ND		250	247		ug/L		99	70 - 132	13	20
Methylene Chloride	ND		250	183		ug/L		73	52 - 130	11	20
Methyl-t-Butyl Ether (MTBE)	ND		250	218		ug/L		87	70 - 130	10	25
m,p-Xylene	ND		250	240		ug/L		96	70 - 133	14	25
Naphthalene	ND		250	241		ug/L		97	60 - 140	8	30
n-Butylbenzene	ND		250	267		ug/L		107	61 - 149	11	20
N-Propylbenzene	ND		250	261		ug/L		104	66 - 135	10	20
o-Xylene	ND		250	255		ug/L		102	70 - 133	11	20
p-Isopropyltoluene	ND		250	254		ug/L		102	70 - 130	10	20
sec-Butylbenzene	ND		250	255		ug/L		102	67 - 134	11	20
Styrene	ND		250	223		ug/L		89	29 - 150	12	35
tert-Butylbenzene	ND		250	251		ug/L		100	70 - 130	10	20
1,1,1,2-Tetrachloroethane	ND		250	219		ug/L		88	60 - 149	11	20
1,1,2,2-Tetrachloroethane	ND		250	226		ug/L		90	63 - 130	8	30
Tetrachloroethene	8.8		250	217		ug/L		83	70 - 137	11	20
Toluene	ND		250	249		ug/L		100	70 - 130	11	20
trans-1,2-Dichloroethene	3.4	J	250	259		ug/L		102	70 - 130	12	20
trans-1,3-Dichloropropene	ND		250	239		ug/L		96	70 - 138	11	25
1,2,3-Trichlorobenzene	ND		250	217		ug/L		87	60 - 140	7	20
1,2,4-Trichlorobenzene	ND		250	216		ug/L		87	60 - 140	10	20
1,1,1-Trichloroethane	ND		250	204		ug/L		81	70 - 130	12	20
1,1,2-Trichloroethane	2.8	J	250	238		ug/L		94	70 - 130	11	25
Trichloroethene	1000		250	1120	4	ug/L		39	70 - 130	10	20
Trichlorofluoromethane	ND		250	179		ug/L		72	60 - 150	13	25
1,2,3-Trichloropropane	ND		250	203		ug/L		81	60 - 130	7	30
1,2,4-Trimethylbenzene	ND		250	233		ug/L		93	70 - 130	9	25
1,3,5-Trimethylbenzene	ND		250	249		ug/L		100	70 - 130	9	20
Vinyl chloride	18		250	237		ug/L		87	50 - 137	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	97		76 - 132
Toluene-d8 (Surr)	100		80 - 128

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-504895/53

Matrix: Solid

Analysis Batch: 504895

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			10/13/18 12:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		65 - 140					10/13/18 12:30	1

Lab Sample ID: LCS 440-504895/3

Matrix: Solid

Analysis Batch: 504895

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	1350		ug/Kg		84	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	116		65 - 140				

Lab Sample ID: LCSD 440-504895/52

Matrix: Solid

Analysis Batch: 504895

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	1350		ug/Kg		84	70 - 135	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	125		65 - 140						

Lab Sample ID: 440-221711-A-1 MS

Matrix: Solid

Analysis Batch: 504895

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
GRO (C4-C12)	ND		1600	1000		ug/Kg		63	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		65 - 140						

Lab Sample ID: 440-221711-A-1 MSD

Matrix: Solid

Analysis Batch: 504895

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
GRO (C4-C12)	ND		1580	1010		ug/Kg		64	60 - 140	1	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-505023/5

Matrix: Solid

Analysis Batch: 505023

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			10/14/18 10:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		65 - 140					10/14/18 10:15	1

Lab Sample ID: LCS 440-505023/3

Matrix: Solid

Analysis Batch: 505023

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	1240		ug/Kg		78	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		65 - 140						

Lab Sample ID: LCSD 440-505023/4

Matrix: Solid

Analysis Batch: 505023

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	1170		ug/Kg		73	70 - 135	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	121		65 - 140						

Lab Sample ID: 440-221644-1 MS

Matrix: Solid

Analysis Batch: 505023

Client Sample ID: AOC4-SV17-5

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	1030		ug/Kg		65	60 - 140		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		65 - 140								

Lab Sample ID: 440-221644-1 MSD

Matrix: Solid

Analysis Batch: 505023

Client Sample ID: AOC4-SV17-5

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	6	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	113		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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

Lab Sample ID: MB 440-505024/4

Matrix: Water

Analysis Batch: 505024

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		50	25	ug/L			10/14/18 09:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		65 - 140					10/14/18 09:41	1

Lab Sample ID: LCS 440-505024/3

Matrix: Water

Analysis Batch: 505024

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)	800	705		ug/L		88	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		65 - 140				

Lab Sample ID: 440-221398-B-3 MS

Matrix: Water

Analysis Batch: 505024

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
GRO (C4-C12)	64		800	734		ug/L		84	65 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		65 - 140						

Lab Sample ID: 440-221398-B-3 MSD

Matrix: Water

Analysis Batch: 505024

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
GRO (C4-C12)	64		800	721		ug/L		82	65 - 140	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		65 - 140								

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-504060/1-A

Matrix: Water

Analysis Batch: 504496

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		10/10/18 10:33	10/11/18 19:52	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		10/10/18 10:33	10/11/18 19:52	1

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-504060/1-A

Matrix: Water

Analysis Batch: 504496

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504060

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	74		45 - 120	10/10/18 10:33	10/11/18 19:52	1

Lab Sample ID: LCS 440-504060/2-A

Matrix: Water

Analysis Batch: 504496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504060

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			1.00	0.437	J	mg/L	-	44	40 - 115		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane	90		45 - 120								

Lab Sample ID: LCSD 440-504060/3-A

Matrix: Water

Analysis Batch: 504496

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 504060

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28			1.00	0.475	J	mg/L	-	48	40 - 115	8	25
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane	79		45 - 120								

Lab Sample ID: MB 440-504282/1-A

Matrix: Solid

Analysis Batch: 504384

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504282

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 14:47	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 14:47	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	98		40 - 140				10/11/18 06:50	10/11/18 14:47	1

Lab Sample ID: LCS 440-504282/2-A

Matrix: Solid

Analysis Batch: 504384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504282

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			66.7	52.2		mg/Kg	-	78	45 - 115		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
n-Octacosane	87		40 - 140								

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-221792-G-2-D MS

Matrix: Solid

Analysis Batch: 504384

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 504282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	2.5	J	66.6	58.0		mg/Kg		83	40 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane	90		40 - 140						

Lab Sample ID: 440-221792-G-2-E MSD

Matrix: Solid

Analysis Batch: 504384

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 504282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	2.5	J	66.6	55.0		mg/Kg		79	40 - 120	5	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane	88		40 - 140								

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-503698/1-A

Matrix: Water

Analysis Batch: 504021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 503698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1221	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1232	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1242	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1248	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1254	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1260	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	93		26 - 115				10/09/18 06:24	10/10/18 12:37	1

Lab Sample ID: LCS 440-503698/4-A

Matrix: Water

Analysis Batch: 504021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 503698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	2.46		ug/L		61	50 - 115
Aroclor 1260	4.00	3.09		ug/L		77	53 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	77		26 - 115				

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 440-503698/5-A

Matrix: Water

Analysis Batch: 504021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 503698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	4.00	3.06		ug/L		76	50 - 115	18	22
Aroclor 1260	4.00	3.30		ug/L		82	53 - 120	3	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	77		26 - 115

Lab Sample ID: MB 440-504287/1-A

Matrix: Solid

Analysis Batch: 504378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	105		45 - 120	10/11/18 07:11	10/11/18 16:30	1

Lab Sample ID: LCS 440-504287/2-A

Matrix: Solid

Analysis Batch: 504378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	245		ug/Kg		92	65 - 115
Aroclor 1260	267	254		ug/Kg		95	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	95		45 - 120

Lab Sample ID: 440-221812-A-66-B MS

Matrix: Solid

Analysis Batch: 504378

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 504287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		265	244		ug/Kg		92	50 - 120
Aroclor 1260	ND		265	262		ug/Kg		99	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	88		45 - 120

TestAmerica Irvine

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-221812-A-66-E MSD

Matrix: Solid

Analysis Batch: 504378

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 504287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	247		ug/Kg		93	50 - 120	1	30
Aroclor 1260	ND		266	267		ug/Kg		101	50 - 125	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		45 - 120

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

GC/MS VOA

Analysis Batch: 503694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8260B	503776
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8260B	503776
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8260B	503776
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8260B	503776
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8260B	503776
MB 440-503694/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-503694/6	Lab Control Sample	Total/NA	Solid	8260B	
440-221605-B-9 MS	Matrix Spike	Total/NA	Solid	8260B	
440-221605-B-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Prep Batch: 503776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	5035	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	5035	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	5035	
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	5035	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	5035	

Analysis Batch: 504839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-3	TB-20181006	Total/NA	Water	8260B	
440-221644-7	EB-20181006	Total/NA	Water	8260B	
MB 440-504839/4	Method Blank	Total/NA	Water	8260B	
LCS 440-504839/5	Lab Control Sample	Total/NA	Water	8260B	
440-221818-A-18 MS	Matrix Spike	Total/NA	Water	8260B	
440-221818-A-18 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 504895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8015B	
MB 440-504895/53	Method Blank	Total/NA	Solid	8015B	
LCS 440-504895/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-504895/52	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-221711-A-1 MS	Matrix Spike	Total/NA	Solid	8015B	
440-221711-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

Analysis Batch: 505023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8015B	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8015B	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8015B	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8015B	
MB 440-505023/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-505023/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-505023/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-221644-1 MS	AOC4-SV17-5	Total/NA	Solid	8015B	
440-221644-1 MSD	AOC4-SV17-5	Total/NA	Solid	8015B	

TestAmerica Irvine

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

GC VOA (Continued)

Analysis Batch: 505024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	8015B	
MB 440-505024/4	Method Blank	Total/NA	Water	8015B	
LCS 440-505024/3	Lab Control Sample	Total/NA	Water	8015B	
440-221398-B-3 MS	Matrix Spike	Total/NA	Water	8015B	
440-221398-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 503698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	3510C	
MB 440-503698/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-503698/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-503698/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 504021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	8082	503698
MB 440-503698/1-A	Method Blank	Total/NA	Water	8082	503698
LCS 440-503698/4-A	Lab Control Sample	Total/NA	Water	8082	503698
LCSD 440-503698/5-A	Lab Control Sample Dup	Total/NA	Water	8082	503698

Prep Batch: 504060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	3510C	
MB 440-504060/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-504060/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-504060/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 504282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	3546	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	3546	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	3546	
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	3546	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	3546	
MB 440-504282/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-504282/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-221792-G-2-D MS	Matrix Spike	Total/NA	Solid	3546	
440-221792-G-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 504287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	3546	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	3546	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	3546	
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	3546	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	3546	
MB 440-504287/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-504287/2-A	Lab Control Sample	Total/NA	Solid	3546	

TestAmerica Irvine

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

GC Semi VOA (Continued)

Prep Batch: 504287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221812-A-66-B MS	Matrix Spike	Total/NA	Solid	3546	
440-221812-A-66-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 504378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8082	504287
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8082	504287
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8082	504287
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8082	504287
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8082	504287
MB 440-504287/1-A	Method Blank	Total/NA	Solid	8082	504287
LCS 440-504287/2-A	Lab Control Sample	Total/NA	Solid	8082	504287
440-221812-A-66-B MS	Matrix Spike	Total/NA	Solid	8082	504287
440-221812-A-66-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	504287

Analysis Batch: 504384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8015B	504282
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8015B	504282
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8015B	504282
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8015B	504282
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8015B	504282
MB 440-504282/1-A	Method Blank	Total/NA	Solid	8015B	504282
LCS 440-504282/2-A	Lab Control Sample	Total/NA	Solid	8015B	504282
440-221792-G-2-D MS	Matrix Spike	Total/NA	Solid	8015B	504282
440-221792-G-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	504282

Analysis Batch: 504496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	8015B	504060
MB 440-504060/1-A	Method Blank	Total/NA	Water	8015B	504060
LCS 440-504060/2-A	Lab Control Sample	Total/NA	Water	8015B	504060
LCSD 440-504060/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	504060

Definitions/Glossary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds 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.

GC Semi VOA

Qualifier	Qualifier Description
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.

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: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

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		Water	GRO (C4-C12)
8015B	3510C	Water	DRO (C13-C22)
8015B	3510C	Water	ORO (C23-C40)
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B		Water	m,p-Xylene
8260B	5035	Solid	m,p-Xylene


TestAmerica Irvine
17461 Berian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

206836

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

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

Client Contact Company Name: <u>Parsons</u> Address: <u>100 W. Walnut St</u> City/State/Zip: <u>Pasadena CA 91244</u> Phone: <u>626 440 6133</u> Fax: Project Name: <u>Reseda HS</u> Site: P O #:		Project Manager: <u>Justin King</u> Tel/Fax: <u>310 809 5793</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: <u>C. Carzler</u> Lab Contact: COC No: <u>1</u> of <u>1</u> COCs Date: <u>10/6/18</u> Carrier: Sampler: For Lab Use Only: Walk-In Client Lab Sampling: Job / SDG No : Sample Specific Notes:						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
AOC4-SV17-5	10/6/18	0847	G	S	5	X	X	X	 440-221644 Chain of Custody	
AOC4-SV17-15	10/6/18	0906	G	S	5	X	X	X		
TB-2481006	10/6/18	1015	G	W	3	X	X	X		
AOC4-SV16-5	10/6/18	1024	G	S	5	X	X	X		
AOC4-SV16-5D	10/6/18	1030	G	S	5	X	X	X		
AOC4-SV16-15	10/6/18	1045	G	S	5	X	X	X		
EB-2081006	10/6/18	1100	G	W	9	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		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		
Special Instructions/QC Requirements & Comments: <u>VOCs include MEK and MTBE</u>		Custody Seal No. <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temp (°C) Obs'd: _____		Therm ID No: _____		Received by: <u>Parsons</u> Date/Time: <u>10/6/18 1200</u>		
Relinquished by: <u>Justin King</u>		Company: <u>Parsons</u>		Date/Time: <u>10/6/18 1200</u>		Company: <u>TIA-VN</u>		Date/Time: <u>10/6/18 1200</u>		
Relinquished by: <u>Justin King</u>		Company: <u>TIA-VN</u>		Date/Time: <u>10/6/18 1200</u>		Company: <u>TIA-VN</u>		Date/Time: <u>10/6/18 1200</u>		
Relinquished by: <u>Justin King</u>		Company: <u>TIA-VN</u>		Date/Time: <u>10/6/18 1200</u>		Company: <u>TIA-VN</u>		Date/Time: <u>10/6/18 1200</u>		

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4.1/4.4 IR 66

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-221644-1

Login Number: 221644

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

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?	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	

APPENDIX F



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
SAMPLING METHODOLOGY & LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/7/2018
JEL Ref. No.: ST-12769
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project Name: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-7/2018

Physical State: Indoor Air

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Sampling – Indoor Air samples were collected in 6 Liter SUMMA Canisters over an 8-hour period.

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



714-449-9937 | 11007 FOREST PLACE
 562-646-1611 | SANTA FE SPRINGS, CA 90670
 805-399-0060 | WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	Report date:	10/7/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	Jones Ref. No.:	ST-12769
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	Date Analyzed:	10/6-7/2018
Project Address:	18230 Kittridge Street Reseda, CA	Physical State:	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

<u>Sample ID:</u>	OAS-1	IAS-1	IAS-2	IAS-3	IAS-4		
<u>Jones ID:</u>	ST-12769-01	ST-12769-02	ST-12769-03	ST-12769-04	ST-12769-05	<u>Reporting Limit</u>	<u>Units</u>
Analytes:							
Benzene	0.38	0.45	0.44	0.46	0.44	0.10	µg/m3
Tetrachloroethene	0.13	0.16	0.22	0.30	0.15	0.10	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
4-Bromofluorobenzene	99%	100%	100%	99%	100%	60 - 140	
	TO1-100618-01	TO1-100618-01	TO1-100618-01	TO1-100618-01	TO1-100618-01		

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/7/2018
Jones Ref. No.: ST-12769
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-7/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

Sample ID: OAS-3 OAS-2

Jones ID: ST-12769-06 ST-12769-07

Analytes:

Benzene
Tetrachloroethene

0.42 **0.43**
0.15 **0.15**

Reporting Limit

Units

0.10 µg/m3
0.10 µg/m3

Dilution Factor

1 1

Surrogate Recovery:

4-Bromofluorobenzene

99% 99%

QC Limits

60 - 140

TO1-100618- TO1-100618-
01 01

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Attn: Justin King

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Report date: 10/7/2018
Jones Ref. No.: ST-12769
Client Ref. No.: 450810

Date Sampled: 10/5/2018
Date Received: 10/6/2018
Date Analyzed: 10/6-7/2018
Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

<u>Sample ID:</u>	METHOD		
	BLANK		
<u>Jones ID:</u>	100618-		
	TO1MB1		
<u>Analytes:</u>		<u>Reporting Limit</u>	<u>Units</u>
Benzene	ND	0.10	µg/m3
Tetrachloroethene	ND	0.10	µg/m3
<u>Dilution Factor</u>	1		
<u>Surrogate Recovery:</u>		<u>QC Limits</u>	
4-Bromofluorobenzene	97%	60 - 140	
	TO1-100618-		
	01		

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/7/2018
Jones Ref. No.: ST-12769
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018
Date Received: 10/6/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 10/6-7/2018
Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

Sample Spiked:

Ambient Air

GC#: TO1-100618-01

Jones ID:

100618-TO1CCV1

100618-TO1CCVD1

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	73%	78%	6.4%	70-130
1,1-Dichloroethylene	84%	87%	3.7%	70-130
Cis-1,2-Dichloroethene	83%	92%	10.0%	70-130
1,1,1-Trichloroethane	94%	95%	1.7%	70-130
Benzene	100%	103%	3.1%	70-130
Trichloroethylene	92%	100%	8.3%	70-130
Toluene	102%	105%	3.1%	70-130
Tetrachloroethene	110%	119%	8.4%	70-130
Chlorobenzene	112%	115%	2.8%	70-130
Ethylbenzene	105%	108%	3.0%	70-130
1,2,4 Trimethylbenzene	102%	106%	4.6%	70-130

Surrogate Recovery:

4-Bromofluorobenzene	98%	98%	60 - 140
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MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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Soil-Gas Chain of Custody Record

LAB USE ONLY

Jones Project #

ST-12769

Page

1 of 1

Sample Condition as Received:
Sealed ☐ yes ☐ no

Sample Container:

Summa

If different than above, see Notes.

Client: PARSONS

Project Name: REXDA High School

Project Address: 18230 Kittredge St.

REXDA, CA

Email:

Phone:

Report To: Justin King Sampler: ANO - CJ

Date: 10-5-18

Client Project #: 450810

Turn Around Requested:

- ☐ Immediate Attention
- ☒ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☐ Mobile Lab

Reporting Limits Requested:

☐ Commercial ☒ Residential

Purge Number: ☐ 1P ☐ 3P ☐ 7P ☐ 10P

Shut-In Test: Y / N

Flow Rate: _____

If different than above, see Notes.

Report Options

EDD _____

EDF* - 10% Surcharge _____

*Global ID _____

Tracer:

- ☐ n-pentane
- ☐ n-hexane
- ☐ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐ _____

Analysis Requested

Sample Matrix: Soil Gas (SG), Air (A)

EPA 8260B

EPA TO-15 (PCE, Benzene, TCE, o-xylene)

Magnehelic Vacuum (In/H₂O)

Number of Containers

Units:

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Cannister ID	Cannister Start Pressure	Cannister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15 (PCE, Benzene, TCE, o-xylene)	Magnehelic Vacuum (In/H ₂ O)	Number of Containers	Notes & Special Instructions
OAS-1			10/5			ST-12769-01	B2674	-24	0	0719	1450	86		X		1	
IAS-1			10/5			ST-12769-02	B2673	-28	0	0714	1456	86		X		1	
IAS-2			10/5			ST-12769-03	B2677	-28	0	0717	1458	86		X		1	
IAS-3			10/5			ST-12769-04	B2671	-28	1	0716	1505	86		X		1	
IAS-4			10/5			ST-12769-05	B2479	-28	1	0715	1507	86		X		1	
OAS-3			10/5			ST-12769-06	B1877	-30	2	0717	1514	86		X		1	
OAS-2			10/5			ST-12769-07	B2463	-30	4	0719	1520	86		X		1	

Relinquished By (Signature): [Signature] Printed Name: Justin King

Company: Parsons Date: 10-5-18 Time: 1615

Relinquished By (Signature): [Signature] Printed Name: Annaliese O'Toole

Company: Jones Environmental Date: 10-6-18 Time: 1723

Received By (Signature): [Signature] Printed Name: Annaliese O'Toole

Company: Jones Environmental Date: 10-5-18 Time: 1618

Received By Laboratory (Signature): [Signature] Printed Name: Douglas Fowler

Company: Jones Environmental Date: 10/06/2018 Time: 1800

7 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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JONES ENVIRONMENTAL
SAMPLING METHODOLOGY & LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
JEL Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/6/2018
Date Received: 10/6/2018

Project Name: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 10/6-8/2018
Physical State: Indoor Air

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Sampling – Indoor Air samples were collected in 6 Liter SUMMA Canisters over an 8-hour period.

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Soil Gas samples.

Approval:

David Mirakian, M.S.
Stationary Lab Chemist



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Date Received: 10/6/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 10/6-8/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	OAS-1	OAS-2	OAS-3	IAS-1	IAS-1 REP		
<u>Jones ID:</u>	ST-12770-01	ST-12770-02	ST-12770-03	ST-12770-04	ST-12770-05	<u>Reporting Limit</u>	<u>Units</u>
Analytes:							
Benzene	0.60	0.61	0.35	0.96	0.93	0.10	µg/m3
Tetrachloroethene	0.21	0.20	0.14	0.25	0.26	0.10	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
4-Bromofluorobenzene	100%	101%	107%	100%	102%	60 - 140	

TO1-100618- TO1-100618- TO1-100718- TO1-100718- TO1-100718-
IA-CHECKS IA-CHECKS IA-CHECKS IA-CHECKS IA-CHECKS

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-8/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID: IAS-2 IAS-3 IAS-4

Jones ID: ST-12770-06 ST-12770-07 ST-12770-08

Analytes:

				<u>Reporting Limit</u>	<u>Units</u>
Benzene	0.82	0.78	1.06	0.10	µg/m3
Tetrachloroethene	0.23	0.39	0.26	0.10	µg/m3

Dilution Factor 1 1 1

Surrogate Recovery:

				<u>QC Limits</u>
4-Bromofluorobenzene	101%	100%	98%	60 - 140

TO1-100718- TO1-100718- TO1-100818-
IA-CHECKS IA-CHECKS IA-CHECKS

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-8/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	METHOD BLANK	METHOD BLANK	METHOD BLANK		
<u>Jones ID:</u>	100618- HBLK6	100718- HBLK6	100818- HBLK6	<u>Reporting Limit</u>	<u>Units</u>
Analytes:					
Benzene	ND	ND	ND	0.100	µg/m3
Tetrachloroethene	ND	ND	ND	0.100	µg/m3
<u>Dilution Factor</u>	1	1	1		
<u>Surrogate Recovery:</u>				<u>QC Limits</u>	
4-Bromofluorobenzene	97%	98%	99%	60 - 140	

TO1-100618- TO1-100718- TO1-100818-
IA-CHECKS IA-CHECKS IA-CHECKS

ND= Not Detected



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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-8/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN

GC#: TO1-100618-IA-CHECKS

Jones ID:

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	73%	78%	6.4%	70-130
1,1-Dichloroethylene	84%	87%	3.7%	70-130
Cis-1,2-Dichloroethene	83%	92%	10.0%	70-130
1,1,1-Trichloroethane	94%	95%	1.7%	70-130
Benzene	100%	103%	3.1%	70-130
Trichloroethylene	92%	100%	8.3%	70-130
Toluene	102%	105%	3.1%	70-130
Tetrachloroethene	110%	119%	8.4%	70-130
Chlorobenzene	112%	115%	2.8%	70-130
Ethylbenzene	105%	108%	3.0%	70-130
1,2,4 Trimethylbenzene	102%	106%	4.6%	70-130

Surrogate Recovery:

4-Bromofluorobenzene	98%	98%	60 - 140
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MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-8/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN

GC#: TO1-100718-IA-CHECKS

Jones ID:

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	74%	79%	6.2%	70-130
1,1-Dichloroethylene	85%	86%	0.9%	70-130
Cis-1,2-Dichloroethene	84%	92%	9.1%	70-130
1,1,1-Trichloroethane	95%	94%	0.8%	70-130
Benzene	101%	106%	4.7%	70-130
Trichloroethylene	92%	102%	9.9%	70-130
Toluene	101%	105%	3.9%	70-130
Tetrachloroethene	114%	123%	8.1%	70-130
Chlorobenzene	106%	114%	8.0%	70-130
Ethylbenzene	102%	110%	7.5%	70-130
1,2,4 Trimethylbenzene	103%	108%	4.5%	70-130

Surrogate Recovery:

4-Bromofluorobenzene	100%	100%	60 - 140
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MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12770
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/6-8/2018

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN

GC#: TO1-100818-IA-CHECKS

Jones ID:

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	81%	78%	4.0%	70-130
1,1-Dichloroethylene	88%	90%	2.7%	70-130
Cis-1,2-Dichloroethene	94%	92%	1.7%	70-130
1,1,1-Trichloroethane	101%	94%	6.6%	70-130
Benzene	106%	106%	0.8%	70-130
Trichloroethylene	100%	98%	1.6%	70-130
Toluene	107%	106%	0.7%	70-130
Tetrachloroethene	119%	117%	2.0%	70-130
Chlorobenzene	112%	114%	2.1%	70-130
Ethylbenzene	110%	110%		70-130
1,2,4 Trimethylbenzene	110%	109%	1.5%	70-130

Surrogate Recovery:

4-Bromofluorobenzene	102%	98%	60 - 140
----------------------	------	-----	----------

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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Soil-Gas Chain of Custody Record

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Jones Project #

ST-12770

Page

1 of 1

Sample Condition as Received:
Sealed ☐ yes ☐ no

Sample Container:

Summa

If different than above, see Notes.

Purge Number:
☐ 1P ☐ 3P ☐ 7P ☐ 10P

Report Options

EDD _____
EDF* - 10% Surcharge _____

Shut-In Test: Y / N

Flow Rate: _____

*Global ID _____

If different than above, see Notes.

Turn Around Requested:

- ☐ Immediate Attention
- ☒ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☐ Mobile Lab

Tracer:

- ☐ n-pentane
- ☐ n-hexane
- ☐ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐ _____

Analysis Requested

Sample Matrix: Soil Gas (SG), Air (A)
EPA 8260B
EPA TO-15 (PCE, benzene)
Magnehelic Vacuum (InH₂O)
Number of Containers

Reporting Limits Requested:

☐ Commercial ☒ Residential

Units:

Notes & Special Instructions

Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

Client: Parsons
Project Name: Reseda High School
Project Address: 18230 Kittridge St.
Reseda, CA
Email: _____
Phone: _____
Report To: Justin King Sampler: ANC

Date: 10-6-18
Client Project #: 450810

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Cannister ID	Cannister Start Pressure	Cannister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15 (PCE, benzene)	Magnehelic Vacuum (InH ₂ O)	Number of Containers	Notes & Special Instructions
OAS-1			10/6			ST-12770-01	B2480	-30	-3	0718	1510	86		X		1	
OAS-2			10/6			ST-12770-02	B2477	-30	-4	0719	1514	86		X		1	
OAS-3			10/6			ST-12770-03	1388	-30	-3	0715	1520	86		X		1	
IAS-1			10/6			ST-12770-04	B2468	-30	-2	0713	1455	86		X		1	
IAS-1 REP			10/6			ST-12770-05	B2472	-30	-4	0713	1455	86		X		1	
IAS-2			10/6			ST-12770-06	B2474	-30	-4	0717	1521	86		X		1	
IAS-3			10/6			ST-12770-07	B2664	-29	-2	0716	1458	86		X		1	
IAS-4			10/6			ST-12770-08	1596	-30	-1	0714	1255	86		X		1	
												8					

Relinquished By (Signature): [Signature] Printed Name: Carrie Cruzier
Company: Parsons Date: 10-6-18 Time: 1549
Relinquished By (Signature): [Signature] Printed Name: Annalise O'Toole
Company: JONES ENVIRONMENTAL Date: 10-6-18 Time: 1725

Received By (Signature): [Signature] Printed Name: Annalise O'Toole
Company: JONES ENVIRONMENTAL Date: 10-6-18 Time: 1549
Received By Laboratory (Signature): [Signature] Printed Name: Douglas Fowler
Company: JONES ENVIRONMENTAL Date: 10/06/2018 Time: 1800



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JONES ENVIRONMENTAL
SAMPLING METHODOLOGY & LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
JEL Ref. No.: ST-12771
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/6/2018
Date Received: 10/6/2018

Project Name: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 10/7/2018
Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected in 1 Liter SUMMA canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
Jones Ref. No.: ST-12771
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/6/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 10/6/2018

Date Analyzed: 10/7/2018

Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS

Sample ID: AOC4-SS5 AOC4-SS12 AOC4-SS3 AOC4-SS7

Jones ID: ST-12771-01 ST-12771-02 ST-12771-03 ST-12771-04

Analytes:	ST-12771-01	ST-12771-02	ST-12771-03	ST-12771-04	Reporting Limit	Units
Benzene	ND	ND	ND	ND	3	µg/m3
Tetrachloroethene	19	127	374	9	3	µg/m3

Tracer:	ST-12771-01	ST-12771-02	ST-12771-03	ST-12771-04	Reporting Limit	Units
n-Pentane	ND	ND	ND	4390E	30	µg/m3
n-Hexane	ND	ND	ND	3600E	30	µg/m3
n-Heptane	ND	ND	ND	3490E	30	µg/m3

Dilution Factor	ST-12771-01	ST-12771-02	ST-12771-03	ST-12771-04
	1	1	1	1

Surrogate Recoveries:	ST-12771-01	ST-12771-02	ST-12771-03	ST-12771-04	QC Limits
Dibromofluoromethane	111%	105%	107%	109%	60 - 140
Toluene-d ₈	98%	99%	100%	103%	60 - 140
4-Bromofluorobenzene	101%	97%	101%	101%	60 - 140

Sample ID	ST-12771-01	ST-12771-02	ST-12771-03	ST-12771-04
	E1-100718-01	E1-100718-01	E1-100718-01	E1-100718-01

ND= Value less than reporting limit

E = Estimated value



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11007 FOREST PLACE
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WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Attn: Justin King

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Report date: 10/8/2018
Jones Ref. No.: ST-12771
Client Ref. No.: 450810

Date Sampled: 10/6/2018
Date Received: 10/6/2018
Date Analyzed: 10/7/2018
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	100718- E1MB1	100718- E1SB1	<u>Reporting Limit</u>	<u>Units</u>
Analytes:				
Benzene	ND	ND	3	µg/m3
Tetrachloroethene	ND	ND	3	µg/m3
Tracer:				
n-Pentane	ND	ND	30	µg/m3
n-Hexane	ND	ND	30	µg/m3
n-Heptane	ND	ND	30	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:				<u>QC Limits</u>
Dibromofluoromethane	110%	111%		60 - 140
Toluene-d ₈	100%	99%		60 - 140
4-Bromofluorobenzene	102%	96%		60 - 140

E1-100718- E1-100718-
01 01

ND= Value less than reporting limit



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11007 FOREST PLACE
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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	Report date:	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	Jones Ref. No.:	ST-12771
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	10/6/2018
		Date Received:	10/6/2018
Project:	Reseda High School	Date Analyzed:	10/7/2018
Project Address:	18230 Kittridge Street Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID:	E1-100718-01					
Jones ID:	100718-E1LCS1	100718-E1LCSD1		100718-E1CCV1		
<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	111%	104%	7.2%	60 - 140	98%	80 - 120
1,1-Dichloroethene	110%	106%	4.2%	60 - 140	93%	80 - 120
Cis-1,2-Dichloroethene	127%	127%	0.2%	70 - 130	109%	80 - 120
1,1,1-Trichloroethane	136%	135%	0.1%	70 - 130	124%	80 - 120
Benzene	113%	110%	2.8%	70 - 130	111%	80 - 120
Trichloroethene	106%	102%	3.5%	70 - 130	110%	80 - 120
Toluene	104%	103%	1.2%	70 - 130	101%	80 - 120
Tetrachloroethene	106%	105%	1.0%	70 - 130	106%	80 - 120
Chlorobenzene	98%	101%	3.5%	70 - 130	103%	80 - 120
Ethylbenzene	105%	104%	0.4%	70 - 130	97%	80 - 120
1,2,4 Trimethylbenzene	93%	92%	1.9%	70 - 130	98%	80 - 120
<u>Surrogate Recovery:</u>						
Dibromofluoromethane	106%	105%		60 - 140	97%	60 - 140
Toluene-d ₈	96%	100%		60 - 140	96%	60 - 140
4-Bromofluorobenzene	103%	101%		60 - 140	107%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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JONES ENVIRONMENTAL
SAMPLING METHODOLOGY & LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 10/8/2018
JEL Ref. No.: ST-12772
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 10/5/2018
Date Received: 10/6/2018

Project Name: Reseda High School
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 10/7/2018
Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected 1 Liter SUMMA canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	Report date:	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	Jones Ref. No.:	ST-12772
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	Date Analyzed:	10/7/2018
Project Address:	18230 Kittridge St. Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

<u>Sample ID:</u>	AOC4-SS5	AOC4-SS12	AOC4-SS3	AOC4-SS3 REP	AOC4-SS7		
<u>Jones ID:</u>	ST-12772-01	ST-12772-02	ST-12772-03	ST-12772-04	ST-12772-05	<u>Reporting Limit</u>	<u>Units</u>
Analytes:							
Benzene	ND	ND	ND	ND	ND	3	µg/m3
Tetrachloroethene	4	89	323	373	234	3	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	30	µg/m3
n-Hexane	ND	ND	ND	ND	ND	30	µg/m3
n-Heptane	ND	ND	ND	ND	ND	30	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						<u>QC Limits</u>	
Dibromofluoromethane	89%	91%	91%	85%	88%	60 - 140	
Toluene-d ₈	91%	91%	91%	93%	94%	60 - 140	
4-Bromofluorobenzene	89%	91%	91%	89%	96%	60 - 140	

D1-100718-01 D1-100718-01 D1-100718-01 D1-100718-01 D1-100718-01

ND= Value less than reporting limit



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	Report date:	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	Jones Ref. No.:	ST-12772
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	Date Analyzed:	10/7/2018
Project Address:	18230 Kittridge St. Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	100718- D1MB1	100718- D1SB1		
Analytes:			<u>Reporting Limit</u>	<u>Units</u>
Benzene	ND	ND	3	µg/m3
Tetrachloroethene	ND	ND	3	µg/m3
Tracer:				
n-Pentane	ND	ND	30	µg/m3
n-Hexane	ND	ND	30	µg/m3
n-Heptane	ND	ND	30	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:				<u>QC Limits</u>
Dibromofluoromethane	87%	77%		60 - 140
Toluene-d ₈	87%	98%		60 - 140
4-Bromofluorobenzene	92%	87%		60 - 140
	D1-100718- 01	D1-100718- 01		

ND= Value less than reporting limit



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	Report date:	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	Jones Ref. No.:	ST-12772
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	Date Analyzed:	10/7/2018
Project Address:	18230 Kittridge St. Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

Batch ID:	D1-100718-01					
Jones ID:	100718-D1LCS1	100718-D1LCSD1		100718-D1CCV1		
<u>Parameter</u>	<u>LCS</u> Recovery (%)	<u>LCSD</u> Recovery (%)	<u>RPD</u>	<u>Acceptability</u> Range (%)	<u>CCV</u>	<u>Acceptability</u> Range (%)
Vinyl chloride	121%	130%	7.3%	60 - 140	122%	80 - 120
1,1-Dichloroethene	111%	114%	2.0%	60 - 140	116%	80 - 120
Cis-1,2-Dichloroethene	107%	107%	0.3%	70 - 130	106%	80 - 120
1,1,1-Trichloroethane	104%	107%	2.2%	70 - 130	104%	80 - 120
Benzene	118%	119%	0.6%	70 - 130	100%	80 - 120
Trichloroethene	103%	102%	0.7%	70 - 130	104%	80 - 120
Toluene	92%	94%	2.8%	70 - 130	96%	80 - 120
Tetrachloroethene	88%	93%	5.5%	70 - 130	91%	80 - 120
Chlorobenzene	75%	90%	17.1%	70 - 130	102%	80 - 120
Ethylbenzene	97%	99%	1.9%	70 - 130	102%	80 - 120
1,2,4 Trimethylbenzene	92%	99%	7.8%	70 - 130	102%	80 - 120
<u>Surrogate Recovery:</u>						
Dibromofluoromethane	92%	94%		60 - 140	99%	60 - 140
Toluene-d ₈	89%	94%		60 - 140	97%	60 - 140
4-Bromofluorobenzene	95%	93%		60 - 140	104%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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Soil-Gas Chain of Custody Record

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Jones Project #

ST-12772

Page

1 of 1

Sample Condition as Received:
Sealed ☐ yes ☐ no

Sample Container:

Summa

If different than above, see Notes.

Purge Number:

☐ 1P ☒ 3P ☐ 7P ☐ 10P

Report Options

EDD

EDF* - 10% Surcharge

*Global ID

Shut-In Test: ☒ N

Flow Rate:

If different than above, see Notes.

Turn Around Requested:

- ☐ Immediate Attention
- ☒ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☐ Mobile Lab

Tracer:

- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐

Analysis Requested

Sample Matrix:
Soil Gas (SG), Air (A)
EPA 8260B
EPA TO-15 (reporting on benzene)
Magnehelic Vacuum (In/H₂O)
Number of Containers

Reporting Limits Requested:

☐ Commercial ☒ Residential

Units:

Notes & Special Instructions

Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

Client: Parsons
Project Name: Reseda High School
Project Address: 18230 Kittridge St.
Reseda, CA
Email:
Phone:
Report To: Justin King Sampler: AMO

Date: 10-5-18
Client Project #: 450810

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Cannister ID	Cannister Start Pressure	Cannister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15 (reporting on benzene)	Magnehelic Vacuum (In/H ₂ O)	Number of Containers	Notes & Special Instructions
AO C4-SS5	1	125	10/5			ST-12772-01	01187	-30	-5	1528	1530	SG		X		1	
AO C4-SS12	1	125	10/5			ST-12772-02	B2449	-31	-5	1542	1549	SG		X		1	
AO C4-SS3	1	125	10/5			ST-12772-03	B2432	-30	-5	1555	1601	SG		X		1	
AO C4-SS3 REP	1	125	10/5			ST-12772-04	B2418	-29	-5	1555	1601	SG		X		1	
AO C4-SS7	1	125	10/5			ST-12772-05	B2421 B2418	-30	-5	1608	1617	SG		X		1	

Relinquished By (Signature): [Signature] Printed Name: Justin King
Company: Parsons Date: 10-5-18 Time: 1615
Relinquished By (Signature): [Signature] Printed Name: Annaliese OTOOLE
Company: JONES ENVIRONMENTAL Date: 10-6-18 Time: 1725

Received By (Signature): [Signature] Printed Name: Annaliese OTOOLE
Company: JONES ENVIRONMENTAL Date: 10-5-18 Time: 1615
Received By (Signature): [Signature] Printed Name: Douglas Fowler
Company: JONES ENVIRONMENTAL Date: 10/06/2018 Time: 1805



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
JEL Ref. No.: ST-13160

Attn: Justin King

Date Sampled: 1/3/2019

Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 1/3/2019

Date Analyzed: 1/5/2019

Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected in 1-Liter SUMMA Canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the TO-15 analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No tracer was detected in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except if noted differently on the chain of custody record. Purging was done using a pump set at approximately 200 cc/min, except if noted differently on the chain of custody record. 3 purge volumes were used. (A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.)

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
Jones Ref. No.: ST-13160

Attn: Justin King

Date Sampled: 1/3/2019

Date Received: 1/3/2019

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 1/5/2019

Physical State: Soil Gas

EPA TO-15 – Volatile Organics by GC/MS

<u>Sample ID:</u>	AOC4-SS12	AOC4-SS12 DUP	AOC4-SS5	AOC4-SS3	AOC4-SS7		
<u>Jones ID:</u>	ST-13160-01	ST-13160-02	ST-13160-03	ST-13160-04	ST-13160-05	<u>Reporting Limit</u>	<u>Units</u>
Analytes:							
Benzene	ND	ND	ND	ND	ND	1.0	µg/m3
Tetrachloroethene	79.6	85.2	42.6	245	122.0	1.0	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	10	µg/m3
n-Hexane	ND	ND	ND	ND	ND	10	µg/m3
n-Heptane	ND	ND	ND	ND	ND	10	µg/m3
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
4-Bromofluorobenzene	100%	100%	101%	100%	101%	60 - 140	
	TO1-010519-01	TO1-010519-01	TO1-010519-01	TO1-010519-01	TO1-010519-01		

ND = Value below reporting lin



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
Jones Ref. No.: ST-13160

Attn: Justin King

Date Sampled: 1/3/2019

Date Received: 1/3/2019

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 1/5/2019

Physical State: Soil Gas

EPA TO-15 – Volatile Organics by GC/MS

<u>Sample ID:</u>	METHOD							
	BLANK							
<u>Jones ID:</u>	010519-TO1MB1						<u>Reporting Limit</u>	<u>Units</u>
Analytes:								
Benzene	ND						1.0	µg/m3
Tetrachloroethene	ND						1.0	µg/m3
Tracer:								
n-Pentane	ND	ND	ND	ND	ND	ND	10	µg/m3
n-Hexane	ND	ND	ND	ND	ND	ND	10	µg/m3
n-Heptane	ND	ND	ND	ND	ND	ND	10	µg/m3
<u>Dilution Factor</u>	1							
<u>Surrogate Recovery:</u>							<u>QC Limits</u>	
4-Bromofluorobenzene	102%						60 - 140	
	TO1-0105919-01							

ND = Value below reporting lin



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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
Jones Ref. No.: ST-13160

Attn: Justin King

Date Sampled: 1/3/2019

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 1/3/2019

Date Analyzed: 1/5/2019

Physical State: Soil Gas

EPA TO-15 – Volatile Organics by GC/MS

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-010519-01
Jones ID: 010519-TO1CCV1 010519-TO1CCVD1

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	109%	104%	4.7%	70-130
1,1-Dichloroethylene	106%	108%	1.9%	70-130
Cis-1,2-Dichloroethene	110%	111%	0.9%	70-130
1,1,1-Trichloroethane	94%	99%	5.2%	70-130
Benzene	106%	108%	1.9%	70-130
Trichloroethylene	103%	98%	5.0%	70-130
Toluene	108%	108%	0.0%	70-130
Tetrachloroethene	86%	91%	5.6%	70-130
Chlorobenzene	101%	104%	2.9%	70-130
Ethylbenzene	110%	112%	1.8%	70-130
1,2,4 Trimethylbenzene	97%	100%	3.0%	70-130

Surrogate Recovery:
4-Bromofluorobenzene 104% 101% 60 - 140

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Parsons
Client Address: 100 W. Walnut St.
Pasadena, CA 91124

Report date: 1/8/2019
JEL Ref. No.: ST-13161

Attn: Justin King

Date Sampled: 1/3/2019

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 1/3/2019

Date Analyzed: 1/4/2019

Physical State: Indoor Air

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks (MB) were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Indoor Air samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	Report date:	1/8/2019
Client Address:	100 W. Walnut St. Pasadena, CA 91124	Jones Ref. No.:	ST-13161
Attn:	Justin King	Date Sampled:	1/3/2019
Project:	Reseda High School PEA	Date Received:	1/3/2019
Project Address:	18230 Kittridge Street Reseda, CA	Date Analyzed:	1/4/2019
		Physical State:	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

<u>Sample ID:</u>	IAS-2	IAS-3 DUP	OAS-1	IAS-3	UT-2		
<u>Jones ID:</u>	ST-13161-01	ST-13161-02	ST-13161-03	ST-13161-04	ST-13161-05	<u>Reporting Limit</u>	<u>Units</u>
Analytes:							
Benzene	1.97	1.84	1.85	1.95	2.04	0.10	µg/m3
Tetrachloroethene	0.19	0.20	ND	0.20	0.11	0.10	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
4-Bromofluorobenzene	99%	101%	100%	100%	102%	60 - 140	
	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01		

ND = Value below reporting limit



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut St.
Pasadena, CA 91124

Report date: 1/8/2019
Jones Ref. No.: ST-13161

Attn: Justin King

Date Sampled: 1/3/2019

Date Received: 1/3/2019

Project: Reseda High School PEA

Date Analyzed: 1/4/2019

Project Address: 18230 Kittridge Street
Reseda, CA

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

<u>Sample ID:</u>	UT-1	OAS-3	OAS-2	IAS-1	IAS-4		
<u>Jones ID:</u>	ST-13161-06	ST-13161-07	ST-13161-08	ST-13161-09	ST-13161-10	<u>Reporting Limit</u>	<u>Units</u>
Analytes:							
Benzene	2.20	1.56	1.59	2.33	1.34	0.10	µg/m3
Tetrachloroethene	0.12	ND	ND	0.13	ND	0.10	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
4-Bromofluorobenzene	99%	100%	100%	100%	99%	60 - 140	
	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01		

ND = Value below reporting limit



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut St.
Pasadena, CA 91124

Report date: 1/8/2019
Jones Ref. No.: ST-13161

Attn: Justin King

Date Sampled: 1/3/2019

Date Received: 1/3/2019

Project: Reseda High School PEA

Date Analyzed: 1/4/2019

Project Address: 18230 Kittridge Street
Reseda, CA

Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

Sample ID: METHOD
BLANK

Jones ID: 010419-
TO1MB1

Analytes:

Benzene ND
Tetrachloroethene ND

Reporting Limit

Units

0.10 µg/m3
0.10 µg/m3

Dilution Factor 1

Surrogate Recovery:

4-Bromofluorobenzene 104%

QC Limits

60 - 140

TO1-010419-
01

ND = Value below reporting limit



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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut St.
Pasadena, CA 91124

Report date: 1/8/2019
Jones Ref. No.: ST-13161

Attn: Justin King

Date Sampled: 1/3/2019
Date Received: 1/3/2019

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 1/4/2019
Physical State: Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-010419-01
Jones ID: 010419-TO1CCV1 010419-TO1CCVD1

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	118%	117%	0.9%	70-130
1,1-Dichloroethylene	115%	109%	5.4%	70-130
Cis-1,2-Dichloroethene	120%	118%	1.7%	70-130
1,1,1-Trichloroethane	105%	106%	0.9%	70-130
Benzene	116%	119%	2.6%	70-130
Trichloroethylene	112%	111%	0.9%	70-130
Toluene	115%	116%	0.9%	70-130
Tetrachloroethene	93%	95%	2.1%	70-130
Chlorobenzene	113%	109%	3.6%	70-130
Ethylbenzene	119%	119%	0.0%	70-130
1,2,4 Trimethylbenzene	109%	111%	1.8%	70-130
<u>Surrogate Recovery:</u>				
4-Bromofluorobenzene	101%	100%		60 - 140

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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Air Chain-of-Custody Record

Client: Parsons

Project Name: Reseda High School PFA

Project Address: 18230 Kittredge Street
Reseda, CA

Email: _____

Phone: _____

Report To: Justin King Sampler: AMU

Date: 1-3-19

Client Project #: _____

Purge Rate: _____ cc/min

Shut In Test: Y / N

Jones Project #

ST-13161

Page

1 of 1

Turn Around Requested:

☐ Immediate Attention

Rush:

☐ 24hr ☐ 48hr
☐ 72hr ☐ 96hr

☒ Normal

Tracer:

☐ n-pentane

☐ Helium

☐ _____

Purge Number:

☐ 1 PV

☐ 3 PV

☐ 7 PV

☐ 10 PV

Analysis Requested

TO-15	8260B	Magnehelic Reading (in/H ₂ O)	Number of Containers

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H ₂ O)	Number of Containers
IAS-2	1-3-19			ST-13161-01	01197	-30	-3		0715	1415	X			1
IAS-3 DUP	1-3-19			ST-13161-02	1596	-29	-3		0714	1445	X			1
OAS-1	1-3-19			ST-13161-03	01164	-27	-3		0710	1310	X			1
IAS-3	1-3-19			ST-13161-04	B2676	-30	-4		0714	1448	Y			1
UT-2	1-3-19			ST-13161-05	B2471	-30	-3		0706	1430	X			1
UT-1	1-3-19			ST-13161-06	B2658	-30	-2		0705	1455	X			1
OAS-3	1-3-19			ST-13161-07	B2465	-31	-5		0713	1515	Y			1
OAS-2	1-3-19			ST-13161-08	B2426	-30	-5		0711	1505	X			1
IAS-1	1-3-19			ST-13161-09	B2473	-30	-3		0717	1510	Y			1
IAS-4	1-3-19			ST-13161-10	B2474	-29	-5		0800	1600	X			1

Relinquished By (Signature): _____
Company: Parsons

Date: 1-3-19
Time: 1600

Relinquished By (Signature): _____
Company: _____

Date: _____
Time: _____

Received By (Signature): AMU
Company: JEL

Date: 1-3-19
Time: 1600

Received By Laboratory (Signature): _____
Company: _____

Date: _____
Time: _____

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/15/2018
JEL Ref. No.: D-1525
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 9/15/2018
Date Received: 9/15/2018

Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 9/15/2018
Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Colby Wakeman
QA/QC Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	Report date: 9/15/2018 Jones Ref. No.: D-1525 Client Ref. No.: 450810
Attn:	Justin King	Date Sampled: 9/15/2018 Date Received: 9/15/2018 Date Analyzed: 9/15/2018
Project:	Reseda High School PEA	Physical State: Soil Gas
Project Address:	18230 Kittridge Street Reseda, CA	

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV1- 5'	AOC4-SV1- 15'	AOC4-SV1- 15' REP	AOC4-SV2- 5'	AOC4-SV2- 15'		
<u>Jones ID:</u>	D-1525-01	D-1525-02	D-1525-03	D-1525-04	D-1525-05	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	ND	8	6
Bromodichloromethane	5J	ND	5J	4J	ND	8	1
Bromoform	ND	ND	ND	ND	ND	8	3
n-Butylbenzene	ND	ND	ND	ND	ND	8	8
sec-Butylbenzene	ND	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	2
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates							
<u>Sample ID:</u>	AOC4-SV1- 5'	AOC4-SV1- 15'	AOC4-SV1- 15' REP	AOC4-SV2- 5'	AOC4-SV2- 15'		
<u>Jones ID:</u>	D-1525-01	D-1525-02	D-1525-03	D-1525-04	D-1525-05	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
Ethylbenzene	ND	ND	ND	ND	ND	8	6
Freon 113	ND	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	ND	16	10
Isopropylbenzene	ND	ND	ND	ND	ND	8	7
4-Isopropyltoluene	ND	ND	ND	ND	ND	10	10
Methylene chloride	ND	ND	ND	ND	ND	8	7
Naphthalene	ND	ND	ND	ND	ND	40	8
n-Propylbenzene	ND	ND	ND	ND	ND	8	12
Styrene	ND	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	5
Tetrachloroethene	289	292	302	311	151	8	8
Toluene	4J	ND	ND	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	7
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	7
Vinyl chloride	ND	ND	ND	ND	ND	8	4
m,p-Xylene	ND	ND	ND	ND	ND	16	13
o-Xylene	ND	ND	ND	ND	ND	8	5
MTBE	ND	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	10
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	ND	400	
<u>Dilution Factor</u>	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	96%	96%	97%	94%	94%	60 - 140	
Toluene-d ₈	94%	93%	95%	94%	93%	60 - 140	
4-Bromofluorobenzene	95%	94%	93%	96%	92%	60 - 140	
<u>Batch ID</u>	D-091518- 01	D-091518- 01	D-091518- 01	D-091518- 01	D-091518- 01		

ND= Value less than reporting limit

J = Value less than reporting limit but above MDL



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	Report date: 9/15/2018 Jones Ref. No.: D-1525 Client Ref. No.: 450810
Attn:	Justin King	Date Sampled: 9/15/2018 Date Received: 9/15/2018 Date Analyzed: 9/15/2018
Project:	Reseda High School PEA	Physical State: Soil Gas
Project Address:	18230 Kittridge Street Reseda, CA	

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV3- 5'	AOC4-SV3- 15'	AOC4-SV6- 5'	AOC4-SV6- 15'	AOC4-SV8- 5'		
<u>Jones ID:</u>	D-1525-06	D-1525-07	D-1525-08	D-1525-09	D-1525-10	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	ND	8	6
Bromodichloromethane	4J	5J	ND	ND	5J	8	1
Bromoform	ND	ND	ND	ND	ND	8	3
n-Butylbenzene	ND	ND	ND	ND	30	8	8
sec-Butylbenzene	ND	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	2
1,1-Dichloroethene	6J	6J	ND	6J	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates							
<u>Sample ID:</u>	AOC4-SV3- 5'	AOC4-SV3- 15'	AOC4-SV6- 5'	AOC4-SV6- 15'	AOC4-SV8- 5'		
<u>Jones ID:</u>	D-1525-06	D-1525-07	D-1525-08	D-1525-09	D-1525-10	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
Ethylbenzene	ND	ND	ND	ND	35	8	6
Freon 113	ND	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	ND	16	10
Isopropylbenzene	ND	ND	ND	ND	ND	8	7
4-Isopropyltoluene	ND	ND	ND	ND	ND	10	10
Methylene chloride	ND	ND	ND	ND	ND	8	7
Naphthalene	ND	ND	ND	15J	199	40	8
n-Propylbenzene	ND	ND	ND	ND	34	8	12
Styrene	ND	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	5
Tetrachloroethene	728	491	196	174	494	8	8
Toluene	ND	ND	ND	ND	29	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	8J	ND	378	8	7
1,3,5-Trimethylbenzene	ND	ND	ND	ND	87	8	7
Vinyl chloride	ND	ND	ND	ND	ND	8	4
m,p-Xylene	ND	ND	ND	ND	217	16	13
o-Xylene	ND	ND	ND	ND	132	8	5
MTBE	ND	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	10
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	ND	400	
<u>Dilution Factor</u>	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	100%	99%	95%	98%	97%	60 - 140	
Toluene-d ₈	92%	88%	92%	93%	93%	60 - 140	
4-Bromofluorobenzene	91%	89%	94%	93%	92%	60 - 140	
<u>Batch ID</u>	D-091518- 01	D-091518- 01	D-091518- 01	D-091518- 01	D-091518- 01		

ND= Value less than reporting limit

J = Value less than reporting limit but above MDL



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	Report date: 9/15/2018 Jones Ref. No.: D-1525 Client Ref. No.: 450810
Attn:	Justin King	Date Sampled: 9/15/2018 Date Received: 9/15/2018
Project:	Reseda High School PEA	Date Analyzed: 9/15/2018
Project Address:	18230 Kittridge Street Reseda, CA	Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV8-15'	AOC4-SS8	AOC4-SS9	AOC4-SS10	AOC4-SS11		
<u>Jones ID:</u>	D-1525-11	D-1525-12	D-1525-13	D-1525-14	D-1525-15	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
Benzene	7J	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	ND	8	6
Bromodichloromethane	ND	4J	5J	5J	5J	8	1
Bromoform	ND	ND	ND	ND	ND	8	3
n-Butylbenzene	243	ND	ND	ND	ND	8	8
sec-Butylbenzene	24	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	4J	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	2
1,1-Dichloroethene	6J	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV8-15'	AOC4-SS8	AOC4-SS9	AOC4-SS10	AOC4-SS11		
<u>Jones ID:</u>	D-1525-11	D-1525-12	D-1525-13	D-1525-14	D-1525-15	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
Ethylbenzene	410	ND	ND	ND	ND	8	6
Freon 113	ND	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	ND	16	10
Isopropylbenzene	35	ND	ND	ND	ND	8	7
4-Isopropyltoluene	39	ND	ND	ND	ND	10	10
Methylene chloride	ND	ND	ND	ND	ND	8	7
Naphthalene	774	ND	ND	ND	ND	40	8
n-Propylbenzene	282	ND	ND	ND	ND	8	12
Styrene	ND	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	5
Tetrachloroethene	458	566	438	18	73	8	8
Toluene	507	ND	ND	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	2440	ND	ND	ND	ND	8	7
1,3,5-Trimethylbenzene	663	ND	ND	ND	ND	8	7
Vinyl chloride	ND	ND	ND	ND	ND	8	4
m,p-Xylene	2030	ND	ND	ND	ND	16	13
o-Xylene	1065	ND	ND	ND	ND	8	5
MTBE	ND	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	10
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	ND	400	
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
Dibromofluoromethane	99%	97%	99%	96%	94%	60 - 140	
Toluene-d ₈	95%	@	91%	92%	94%	60 - 140	
4-Bromofluorobenzene	96%	91%	91%	91%	95%	60 - 140	
<u>Batch ID</u>	D-091518-01	D-091518-01	D-091518-01	D-091518-01	D-091518-01		

ND= Value less than reporting limit



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	Report date: 9/15/2018 Jones Ref. No.: D-1525 Client Ref. No.: 450810
Attn:	Justin King	Date Sampled: 9/15/2018 Date Received: 9/15/2018 Date Analyzed: 9/15/2018
Project:	Reseda High School PEA	Physical State: Soil Gas
Project Address:	18230 Kittridge Street Reseda, CA	

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SS12	AOC4-SV15- 5'	AOC4-SV15- 5' REP	AOC4-SV15- 15'		
<u>Jones ID:</u>	D-1525-16	D-1525-17	D-1525-18	D-1525-19	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:						
Benzene	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	8	6
Bromodichloromethane	5J	5J	5J	6J	8	1
Bromoform	ND	ND	ND	ND	8	3
n-Butylbenzene	ND	ND	ND	ND	8	8
sec-Butylbenzene	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	8	2
1,1-Dichloroethene	7J	5J	8J	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SS12	AOC4-SV15- 5'	AOC4-SV15- 5' REP	AOC4-SV15- 15'		
<u>Jones ID:</u>	D-1525-16	D-1525-17	D-1525-18	D-1525-19	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:						
cis-1,3-Dichloropropene	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	8	2
Ethylbenzene	ND	ND	ND	ND	8	6
Freon 113	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	16	10
Isopropylbenzene	ND	ND	ND	ND	8	7
4-Isopropyltoluene	ND	ND	ND	14	10	10
Methylene chloride	ND	ND	ND	ND	8	7
Naphthalene	ND	ND	ND	ND	40	8
n-Propylbenzene	ND	ND	ND	ND	8	12
Styrene	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	8	5
Tetrachloroethene	109	683	676	463	8	8
Toluene	ND	ND	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	8	7
1,3,5-Trimethylbenzene	ND	ND	ND	ND	8	7
Vinyl chloride	ND	ND	ND	ND	8	4
m,p-Xylene	ND	ND	ND	ND	16	13
o-Xylene	ND	ND	ND	ND	8	5
MTBE	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	400	10
Tracer:						
n-Pentane	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	400	
<u>Dilution Factor</u>	1	1	1	1		
Surrogate Recoveries:					QC Limits	
Dibromofluoromethane	93%	101%	97%	99%	60 - 140	
Toluene-d ₈	96%	91%	94%	94%	60 - 140	
4-Bromofluorobenzene	94%	92%	94%	93%	60 - 140	
<u>Batch ID</u>	D-091518- 01	D-091518- 01	D-091518- 01	D-091518- 01		

ND= Value less than reporting limit

J = Value less than reporting limit but above MDL



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Parsons
100 West Walnut Street
Pasadena, CA 91124

Report date: 9/15/2018
Jones Ref. No.: D-1525
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 9/15/2018

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 9/15/2018

Date Analyzed: 9/15/2018

Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	091518- D1MB1	091518- D1SB1	<u>Reporting Limit</u> <u>(µg/m3)</u>	<u>MDL</u> <u>(µg/m3)</u>
Analytes:				
Benzene	ND	ND	8	2
Bromobenzene	ND	ND	8	6
Bromodichloromethane	ND	ND	8	1
Bromoform	ND	ND	8	3
n-Butylbenzene	ND	ND	8	8
sec-Butylbenzene	ND	ND	8	8
tert-Butylbenzene	ND	ND	8	5
Carbon tetrachloride	ND	ND	8	5
Chlorobenzene	ND	ND	8	5
Chloroform	ND	ND	8	2
2-Chlorotoluene	ND	ND	10	7
4-Chlorotoluene	ND	ND	10	10
Dibromochloromethane	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	8	2
Dibromomethane	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	8	8
1,1-Dichloroethane	ND	ND	8	4
1,2-Dichloroethane	ND	ND	8	2
1,1-Dichloroethene	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	8	5
1,2-Dichloropropane	ND	ND	8	2
1,3-Dichloropropane	ND	ND	8	2
2,2-Dichloropropane	ND	ND	8	3
1,1-Dichloropropene	ND	ND	10	9

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	091518- D1MB1	091518- D1SB1	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	8	2
Ethylbenzene	ND	ND	8	6
Freon 113	ND	ND	16	6
Hexachlorobutadiene	ND	ND	16	10
Isopropylbenzene	ND	ND	8	7
4-Isopropyltoluene	ND	ND	10	10
Methylene chloride	ND	ND	8	7
Naphthalene	ND	ND	40	8
n-Propylbenzene	ND	ND	8	12
Styrene	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	8	5
Tetrachloroethene	ND	ND	8	8
Toluene	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	8	3
Trichloroethene	ND	ND	8	6
Trichlorofluoromethane	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	8	7
1,3,5-Trimethylbenzene	ND	ND	8	7
Vinyl chloride	ND	ND	8	4
m,p-Xylene	ND	ND	16	13
o-Xylene	ND	ND	8	5
MTBE	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	40	2
Di-isopropylether	ND	ND	40	2
tert-amylmethylether	ND	ND	40	2
tert-Butylalcohol	ND	ND	400	10
Tracer:				
n-Pentane	ND	ND	400	
n-Hexane	ND	ND	400	
n-Heptane	ND	ND	400	
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>			<u>QC Limits</u>	
Dibromofluoromethane	88%	90%	60 - 140	
Toluene-d ₈	92%	92%	60 - 140	
4-Bromofluorobenzene	92%	95%	60 - 140	
<u>Batch ID</u>	D-091518- 01	D-091518- 01		

ND= Value less than reporting limit



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	Report date:	9/15/2018
		Jones Ref. No.:	D-1525
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	9/15/2018
		Date Received:	9/15/2018
Project:	Reseda High School PEA	Date Analyzed:	9/15/2018
Project Address:	18230 Kittridge Street Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: D-091518-01

Jones ID: **091518-D1LCS1** **091518-D1LCSD1** **091518-D1CCV1**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	88%	84%	4.5%	60 - 140	114%	80 - 120
1,1-Dichloroethene	93%	92%	1.2%	60 - 140	81%	80 - 120
Cis-1,2-Dichloroethene	112%	105%	6.7%	70 - 130	99%	80 - 120
1,1,1-Trichloroethane	108%	102%	6.1%	70 - 130	95%	80 - 120
Benzene	119%	114%	4.6%	70 - 130	92%	80 - 120
Trichloroethene	109%	102%	6.6%	70 - 130	100%	80 - 120
Toluene	101%	97%	3.2%	70 - 130	92%	80 - 120
Tetrachloroethene	95%	92%	2.9%	70 - 130	94%	80 - 120
Chlorobenzene	103%	101%	1.9%	70 - 130	97%	80 - 120
Ethylbenzene	104%	100%	4.0%	70 - 130	96%	80 - 120
1,2,4 Trimethylbenzene	103%	99%	3.6%	70 - 130	96%	80 - 120

Surrogate Recovery:

Dibromofluoromethane	99%	96%	60 - 140	95%	60 - 140
Toluene-d ₈	95%	94%	60 - 140	93%	60 - 140
4-Bromofluorobenzene	101%	98%	60 - 140	103%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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Santa Fe Springs, CA 90670
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Soil-Gas Chain-of-Custody Record

Client PARSONS						Date 9/15/2018				Purge Number: <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P				Report Options EDD _____ EDF* - 10% Surcharge _____				LAB USE ONLY Jones Project # D-1525																	
Project Name RESEDA HIGH SCHOOL PEA						Client Project # 450810				Shut-In Test: (Y) / N				*Global ID _____																					
Project Address 18230 KITTRIDGE STREET						Turn Around Requested <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24 Hours <input type="checkbox"/> Rush 48 Hours <input type="checkbox"/> Rush 72 Hours <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Mobile Lab				Tracer <input checked="" type="checkbox"/> n-pentane <input checked="" type="checkbox"/> n-hexane <input checked="" type="checkbox"/> n-heptane <input type="checkbox"/> Helium <input type="checkbox"/> 1,1-DFA <input type="checkbox"/> _____				Analysis Requested				Page 1 of 2																	
RESEDA, CA						Reporting Limits Requested <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential				Units 100/m ³				Sample Matrix: Soil Gas (SG), Air (A), Material (M)				Sample Container: GASTIGHT GLASS SYRINGE If different than above, see Notes.																	
Email						Reporting Limits Requested				Units				Sample Matrix:				Sample Container:																	
Phone 310-344-6565						Reporting Limits Requested				Units				Sample Matrix:				Sample Container:																	
Report To JUSTIN KING						Sampler JOEL ALMAS				Reporting Limits Requested				Units				Sample Matrix:																	
Sample ID						Purge Number		Purge Volume (mL)		Date		Sample Collection Time		Sample Analysis Time		Laboratory Sample ID		Purge Rate (mL/min)		Pump Used		Magnehelic		Sample Matrix:		Soil Gas (SG), Air (A), Material (M)		EPA 8260B (VOCs)		Magnehelic Vacuum (in/H₂O)		Number of Containers		Notes & Special Instructions	
AOC4-SV1-5'						3		2810		9/15/18		7:55		7:57		D-1525-01		200		JOSH.1		M100-105		SG		X				<2		1			
AOC4-SV1-15'						3		2980		9/15/18		8:10		8:13		D-1525-02		200		ANNALISE.2		118009		SG		X				<2		1			
AOC4-SV1-15' REP						3		2980		9/15/18		8:32		8:33		D-1525-03		200		ANNALISE.2		118009		SG		X				<2		1			
AOC4-SV2-5'						3		2810		9/15/18		7:22		7:23		D-1525-04		200		JOSH.1		M100-105		SG		X				<2		1			
AOC4-SV2-15'						3		2980		9/15/18		7:36		7:39		D-1525-05		200		ANNALISE.2		118009		SG		X				<2		1			
AOC4-SV3-5'						3		2810		9/15/18		8:45		8:47		D-1525-06		200		JOSH.1		M100-105		SG		X				<2		1			
AOC4-SV3-15'						3		2980		9/15/18		9:01		9:05		D-1525-07		200		ANNALISE.2		118009		SG		X				18		1			
AOC4-SV6-5'						3		2810		9/15/18		10:00		10:02		D-1525-08		200		JOSH.1		M100-105		SG		X				<2		1			
AOC4-SV6-15'						3		2980		9/15/18		10:17		10:17		D-1525-09		200		ANNALISE.2		118009		SG		X				20		1			
AOC4-SV8-5'						3		2810		9/15/18		9:25		9:27		D-1525-10		200		JOSH.1		M100-105		SG		X				<2		1			
Relinquished By (Signature) Pete Sh						Printed Name Pete Sh						Received By (Signature) Joel Almas						Printed Name JOEL ALMAS						10		Total Number of Containers									
Company Parsons						Date 9/15/2018						Time 13:40						Company JONES ENVIRONMENTAL, INC.						Date 9/15/2018						Time 13:20					
Relinquished By (Signature)						Printed Name						Received By Laboratory (Signature)						Printed Name						Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.											
Company						Date						Time						Company						Date						Time					



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Fax (714) 449-9685
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Soil-Gas Chain-of-Custody Record

Client
PARSONS

Project Name
RESEDA HIGH SCHOOL PEA

Project Address
18230 KITTRIDGE STREET

RESEDA, CA

Email

Phone
310-344-6565

Date
9/15/2018

Client Project #
450810

Purge Number:
☐ 1P ☒ 3P ☐ 7P ☐ 10P

Shut-In Test: **(Y)** / N

Report Options
EDD _____
EDF* - 10% Surcharge _____

*Global ID _____

LAB USE ONLY

Jones Project #

D-1525

Page

2 of **2**

Sample Container:

GASTIGHT GLASS SYRINGE

If different than above, see Notes.

Report To
JUSTIN KING

Sampler
JOEL ALMAS

Turn Around Requested

- ☐ Immediate Attention
☐ Rush 24 Hours
☐ Rush 48 Hours
☐ Rush 72 Hours
☐ Normal
☒ Mobile Lab

Tracer

- ☒ n-pentane
☒ n-hexane
☒ n-heptane
☐ Helium
☐ 1,1-DFA
☐ _____

Analysis Requested

Reporting Limits Requested
☐ Commercial ☒ Residential

Units
ug/M³

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)					Magnehelic Vacuum (in/H ₂ O)	Number of Containers	Notes & Special Instructions
AOC4-SV8-15'	3	2980	9/15/18	9:39	9:41	D-1525-11	200	ANNALISE.2	118009	SG	X					14	1	
AOC4-SS8		100	9/15/18	11:39	11:46	D-1525-12	NA	HAND	118009	SG	X					<2	1	
AOC4-SS9	3	100	9/15/18	11:28	11:29	D-1525-13	NA	HAND	118009	SG	X					<2	1	
AOC4-SS10	3	100	9/15/18	12:30	12:33	D-1525-14	NA	HAND	118009	SG	X					<2	1	
AOC4-SS11	3	100	9/15/18	12:45	12:51	D-1525-15	NA	HAND	118009	SG	X					<2	1	
AOC4-SS12	3	100	9/15/18	12:53	1:07	D-1525-16	NA	HAND	118009	SG	X					<2	1	
AOC4-SV15-5'	3	2810	9/15/18	10:40	10:41	D-1525-17	200	JOSH.1	M100-105	SG	X					<2	1	
AOC4-SV15-5' REP	3	2810	9/15/18	10:55	10:55	D-1525-18	200	JOSH.1	M100-105	SG	X					<2	1	
AOC4-SV15-15'	3	2980	9/15/18	11:10	11:11	D-1525-19	200	ANNALISE.2	118009	SG	X					<2	1	

Relinquished By (Signature) *Pete Sh* Printed Name **Pete Sharr**

Company **Parsons** Date **9-15-18** Time **1340**

Relinquished By (Signature) _____ Printed Name _____

Company _____ Date _____ Time _____

Received By (Signature) *Joel Almas* Printed Name **JOEL ALMAS**

Company **JONES ENVIRONMENTAL, INC.** Date **9/15/2018** Time **13:20**

Received By Laboratory (Signature) _____ Printed Name _____

Company _____ Date _____ Time _____

9 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/19/2018
JEL Ref. No.: E-0915
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 9/19/2018
Date Received: 9/19/2018

Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Analyzed: 9/19/2018
Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/19/2018
Jones Ref. No.: E-0915
Client Ref. No.: 450810

Attn: Justin King
Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Sampled: 9/19/2018
Date Received: 9/19/2018
Date Analyzed: 9/19/2018
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV13- 5'	AOC4-SV13- 15'	AOC4-SV14- 5'	AOC4-SV14- 15'	AOC4-SS4		
<u>Jones ID:</u>	E-0915-01	E-0915-02	E-0915-03	E-0915-04	E-0915-05	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV13- 5'	AOC4-SV13- 15'	AOC4-SV14- 5'	AOC4-SV14- 15'	AOC4-SS4		
<u>Jones ID:</u>	E-0915-01	E-0915-02	E-0915-03	E-0915-04	E-0915-05	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	551	722	947	984	757	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	9	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
1,2-Dichloroethane-d4	111%	111%	127%	129%	130%	60 - 140	
Toluene-d8	102%	102%	102%	102%	102%	60 - 140	
4-Bromofluorobenzene	97%	100%	100%	100%	100%	60 - 140	
	E1-091918- 01	E1-091918- 01	E1-091918- 01	E1-091918- 01	E1-091918- 01		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/19/2018
Jones Ref. No.: E-0915
Client Ref. No.: 450810

Attn: Justin King
Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Sampled: 9/19/2018
Date Received: 9/19/2018
Date Analyzed: 9/19/2018
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SS5	AOC4-SS7	AOC4-SS3	AOC4-SV10- 5'	AOC4-SV10- 15'	<u>Practical Quantitation Limit</u>	<u>Units</u>
<u>Jones ID:</u>	E-0915-06	E-0915-07	E-0915-08	E-0915-09	E-0915-10		
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SS5	AOC4-SS7	AOC4-SS3	AOC4-SV10-5'	AOC4-SV10-15'		
<u>Jones ID:</u>	E-0915-06	E-0915-07	E-0915-08	E-0915-09	E-0915-10	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	866	1040	1300	1440	1110	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
1,2-Dichloroethane-d4	131%	130%	131%	130%	130%	60 - 140	
Toluene-d8	101%	101%	99%	100%	101%	60 - 140	
4-Bromofluorobenzene	103%	102%	97%	98%	97%	60 - 140	
	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/19/2018
Jones Ref. No.: E-0915
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 9/19/2018

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 9/19/2018

Date Analyzed: 9/19/2018

Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV10- 15' REP	AOC4-SS2	AOC4-SS1	AOC4-SV11- 5'	AOC4-SV11- 15'	<u>Practical Quantitation Limit</u>	<u>Units</u>
<u>Jones ID:</u>	E-0915-11	E-0915-12	E-0915-13	E-0915-14	E-0915-15		
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV10- 15' REP	AOC4-SS2	AOC4-SS1	AOC4-SV11- 5'	AOC4-SV11- 15'		
<u>Jones ID:</u>	E-0915-11	E-0915-12	E-0915-13	E-0915-14	E-0915-15	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	1070	1050	845	1080	911	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
1,2-Dichloroethane-d4	130%	129%	129%	133%	129%	60 - 140	
Toluene-d8	99%	101%	99%	99%	98%	60 - 140	
4-Bromofluorobenzene	97%	100%	97%	96%	97%	60 - 140	
	E1-091918- 01	E1-091918- 01	E1-091918- 01	E1-091918- 01	E1-091918- 01		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/19/2018
Jones Ref. No.: E-0915
Client Ref. No.: 450810

Attn: Justin King
Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Sampled: 9/19/2018
Date Received: 9/19/2018
Date Analyzed: 9/19/2018
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID: AOC4-SV9- 5' AOC4-SV9- 15'

Jones ID: E-0915-16 E-0915-17

Analytes:

			<u>Practical Quantitation Limit</u>	<u>Units</u>
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV9- 5'	AOC4-SV9- 15'		
<u>Jones ID:</u>	E-0915-16	E-0915-17	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8	µg/m3
Tetrachloroethene	844	680	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	8	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
TIC:				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1		
Surrogate Recoveries:			QC Limits	
1,2-Dichloroethane-d4	130%	129%	60 - 140	
Toluene-d8	98%	97%	60 - 140	
4-Bromofluorobenzene	96%	95%	60 - 140	
	E1-091918- 01	E1-091918- 01		

ND= Not Detected



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 West Walnut Street
Pasadena, CA 91124

Report date: 9/19/2018
Jones Ref. No.: E-0915
Client Ref. No.: 450810

Attn: Justin King

Date Sampled: 9/19/2018

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 9/19/2018

Date Analyzed: 9/19/2018

Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
<u>Jones ID:</u>	091918- E1MB1	091918- E1SB1		
Analytes:				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	8	µg/m3

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	091918- E1MB1	091918- E1SB1	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	8	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
TIC:				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1		
Surrogate Recoveries:			QC Limits	
1,2-Dichloroethane-d4	95%	114%	60 - 140	
Toluene-d8	102%	104%	60 - 140	
4-Bromofluorobenzene	100%	101%	60 - 140	
	E1-091918- 01	E1-091918- 01		

ND= Not Detected



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	Report date:	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	Jones Ref. No.:	E-0915
		Client Ref. No.:	450810
Attn:	Justin King	Date Sampled:	9/19/2018
		Date Received:	9/19/2018
Project:	Reseda High School PEA	Date Analyzed:	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E1-091918-01

Jones ID: **091918-E1LCS1** **091918-E1LCSD1** **091918-E1CCV1**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	103%	103%	0.4%	70 - 130	36%	80 - 120
1,1-Dichloroethene	95%	110%	14.2%	70 - 130	83%	80 - 120
Cis-1,2-Dichloroethene	111%	115%	3.6%	70 - 130	117%	80 - 120
1,1,1-Trichloroethane	154%	147%	4.8%	70 - 130	106%	80 - 120
Benzene	104%	110%	6.1%	70 - 130	115%	80 - 120
Trichloroethene	105%	110%	4.1%	70 - 130	114%	80 - 120
Toluene	106%	115%	7.4%	70 - 130	114%	80 - 120
Tetrachloroethene	101%	111%	9.6%	70 - 130	109%	80 - 120
Chlorobenzene	102%	114%	11.3%	70 - 130	116%	80 - 120
Ethylbenzene	95%	106%	10.4%	70 - 130	107%	80 - 120
1,2,4 Trimethylbenzene	95%	106%	11.1%	70 - 130	106%	80 - 120

Surrogate Recovery:

1,2-Dichloroethane-d4	100%	98%	60 - 140	105%	60 - 140
Toluene-d8	102%	101%	60 - 140	98%	60 - 140
4-Bromofluorobenzene	101%	98%	60 - 140	103%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 20\%$



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Soil-Gas Chain-of-Custody Record

Client PARSONS Project Name RESEDA HIGH SCHOOL PEA Project Address 18230 KITTRIDGE STREET RESEDA, CA Email Phone						Date 9/19/2018		Purge Number: <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P		Report Options EDD _____ EDF* = 10% Surcharge _____ *Global ID _____		LAB USE ONLY Jones Project # E-0915		
Client Project # 450810						Shut-In Test <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				Page 1 of 2				
Turn Around Requested <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24 Hours <input type="checkbox"/> Rush 48 Hours <input type="checkbox"/> Rush 72 Hours <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Mobile Lab						Tracer <input checked="" type="checkbox"/> n-pentane <input type="checkbox"/> n-hexane <input checked="" type="checkbox"/> n-heptane <input type="checkbox"/> Helium <input type="checkbox"/> 1,1-DFA		Analysis Requested						
Reporting Limits Requested Commercial <input type="checkbox"/> Residential <input checked="" type="checkbox"/>						Units ug/m ³								
Report To JUSTIN KING						Sampler ANNALISE O'TOOLE								
Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnetohelic	Sample Matrix: Soil Gas (SG), Air (A), Misting (M)	EPA 8260B	Magnetohelic Vacuum (in/H ₂ O)	Number of Containers	Notes & Special Instructions
AOC4-SV13-5'	3	2810	9/19/18	7:28	7:34	E-0915-01	200	ANGELA.1	TSS 118008	SG	X	<2	2	
AOC4-SV13-15'	3	2980	9/19/18	7:45	7:51	E-0915-02	200	STEVE.2	TSS 118009	SG	X	<2	2	
AOC4-SV14-5'	3	2810	9/19/18	7:55	8:08	E-0915-03	200	ANGELA.1	TSS 118008	SG	X	6	2	
AOC4-SV14-15'	3	2980	9/19/18	8:13	8:26	E-0915-04	200	STEVE.2	TSS 118009	SG	X	<2	2	
AOC4-SS4	3	125	9/19/18	8:38	8:43	E-0915-05	200	HAND PURGED	M100.105	SG	X	62	2	
AOC4-SS5	3	125	9/19/18	8:50	9:01	E-0915-06	200	HAND PURGED	M100.105	SG	X	<2	2	
AOC4-SS7	3	125	9/19/18	9:07	9:18	E-0915-07	200	HAND PURGED	M100.105	SG	X	<2	2	
AOC4-SS3	3	125	9/19/18	9:23	9:36	E-0915-08	200	HAND PURGED	M100.105	SG	X	<2	2	
AOC4-SV10-5'	3	2810	9/19/18	9:49	9:53	E-0915-09	200	ANGELA.1	TSS 118008	SG	X	<2	2	
AOC4-SV10-15'	3	2980	9/19/18	10:06	10:11	E-0915-10	200	STEVE.2	TSS 118009	SG	X	<2	2	
Relinquished By (Signature) <i>Pete Shair</i>						Received By (Signature) <i>Annalise O'Toole</i>						20 Total Number of Containers		
Company <i>Parsons</i>						Company <i>Jones Environmental</i>								
Date <i>9-19-18</i> Time <i>1245</i>						Date <i>9-19-18</i> Time								
Relinquished By (Signature)						Received By Laboratory (Signature)						Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.		
Printed Name						Printed Name								
Date Time						Date Time								



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Soil-Gas Chain-of-Custody Record

Client PARSONS Project Name RESEDA HIGH SCHOOL PEA Project Address 18230 KITTRIDGE STREET RESEDA, CA Email Phone						Date 9/19/2018 Client Project # 450810 Turn Around Requested <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24 Hours <input type="checkbox"/> Rush 48 Hours <input type="checkbox"/> Rush 72 Hours <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Mobile Lab						Purge Number <input type="checkbox"/> 1P <input checked="" type="checkbox"/> 3P <input type="checkbox"/> 7P <input type="checkbox"/> 10P Shut-In Test <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tracer <input checked="" type="checkbox"/> n-pentane <input checked="" type="checkbox"/> n-hexane <input checked="" type="checkbox"/> n-heptane <input type="checkbox"/> Helium <input type="checkbox"/> 1,1-DFA						Report Options EDD _____ EDF* - 10% Surcharge _____ *Global ID _____						LAB USE ONLY Jones Project # E-0915 Page 2 of 2 Sample Container: GAS TIGHT GLASS SYRINGE <small>(if different than above, use Notes)</small>											
Report To JUSTIN KING						Sampler ANNALISE O'TOOLE						Reporting Limits Requested Commercial <input type="checkbox"/> Residential <input checked="" type="checkbox"/>						Units ug/m ³																	
Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (in/H ₂ O)	Number of Containers	Notes & Special Instructions																		
AOC4-SV10-15 REP	3	2980	9/19/18	10:22	10:29	E-0915-11	200	STEVE.2	TSS 118009	SG	X				<2	2																			
AOC4-SS2	3	125	9/19/18	10:36	10:46	E-0915-12	200	HAND PURGED	M100.105	SG	X				<2	2																			
AOC4-SS1	3	125	9/19/18	10:54	11:04	E-0915-13	200	HAND PURGED	M100.105	SG	X				20	2																			
AOC4-SV11-5'	3	2810	9/19/18	11:10	11:21	E-0915-14	200	ANGELA.1	TSS 118008	SG	X				<2	2																			
AOC4-SV11-15'	3	2980	9/19/18	11:27	11:39	E-0915-15	200	STEVE.2	TSS 118009	SG	X				<2	2																			
AOC4-SV9-5'	3	2810	9/19/18	11:50	11:57	E-0915-16	200	ANGELA.1	TSS 118008	SG	X				<2	2																			
AOC4-SV9-15'	3	2980	9/19/18	12:06	12:15	E-0915-17	200	STEVE.2	TSS 118009	SG	X				4	2																			
AOC4-SS6	-	-	9/19/18	8:40	-	E-0915-18	-	-	-	-	-				>100	-	NO FLOW																		
Relinquished By (Signature) <i>Pete Sh</i>						Printed Name Pete Shair						Received By (Signature) <i>Annalise O'Toole</i>						Printed Name Annalise O'Toole																	
Company Parsons						Date 9-19-18						Time 12:48						Company Jones Environmental						Date 9-19-18						Time 					
Relinquished By (Signature) 						Printed Name 						Received By Laboratory (Signature) 						Printed Name 						Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.											
Company 						Date 						Time 						Company 												Date 					



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Parsons
Client Address: 100 W. Walnut Street
Reseda, CA 91335

Report date: 10/16/2018
JEL Ref. No.: ST-12784

Attn: Justin King

Date Sampled: 10/9/2018
Date Received: 10/9/2018
Date Analyzed: 10/15/2018
Physical State: Soil Gas

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda High School

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification, QC Reference Standards, and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) were analyzed with each batch of Indoor Air samples.

Approval:

Colby Wakeman
QA/QC Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	Report date:	10/16/2018
Client Address:	100 W. Walnut Street Reseda, CA 91335	Jones Ref. No.:	ST-12784
Attn:	Justin King	Date Sampled:	10/9/2018
		Date Received:	10/9/2018
Project:	Reseda High School	Date Analyzed:	10/15/2018
Project Address:	18230 Kittridge Street Reseda High School	Physical State:	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	AOC4-SV17- 5	AOC4-SV17- 15	AOC4-SV16- 5	AOC4-SV16- 15	AOC4-SV16- 15DUP		
<u>Jones ID:</u>	ST-12784-01	ST-12784-02	ST-12784-03	ST-12784-04	ST-12784-05	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
Acetone	5.8 J	3.7 J	9.3 J	6.3 J	21.3	10.0	0.8
Acrolein	ND	1.5	ND	ND	1.7	1.0	0.5
Benzene	0.4 J	0.4 J	0.4 J	0.4 J	0.5 J	1.0	0.2
Benzyl chloride	ND	ND	ND	ND	ND	1.0	0.2
Bromodichloromethane	1.8	1.5	2.3	2.3	2.2	1.0	0.2
Bromoform	ND	ND	ND	ND	ND	1.0	0.1
Bromomethane	ND	ND	ND	ND	ND	1.0	1.0
1,3-Butadiene	ND	ND	ND	ND	ND	1.0	0.2
2-Butanone (MEK)	3.1	2.9	5.9	5.8	4.0	1.0	0.3
Carbon disulfide	ND	ND	1.9	1.0	1.4	1.0	0.4
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	0.2
Chlorobenzene	ND	ND	ND	ND	ND	1.0	0.1
Chloroform	1.3	1.2	1.8	2.8	2.6	1.0	0.2
Cyclohexane	1.8	1.1	0.8 J	0.9 J	1.0	1.0	0.2
Dibromochloromethane	1.6	ND	2.0	2.1	2.3	1.0	0.2
1,2-Dibromoethane	ND	ND	ND	ND	ND	1.0	0.2
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	0.3
1,3-Dichlorobenzene	ND	1.5	ND	1.4	ND	1.0	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	0.3
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	0.3
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	0.2
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	0.5
Cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	0.5
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	0.2
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	1.0
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	1.0
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	1.0
1,4-Dioxane	ND	ND	ND	ND	ND	1.0	1.0
Ethanol	18.6	13.0	16.9	14.9	14.1	10.0	1.1

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

AOC4-SV17- AOC4-SV17- AOC4-SV16- AOC4-SV16- AOC4-SV16-

5 15 5 15 15DUP

Sample ID:

Jones ID:

ST-12784-01

ST-12784-02

ST-12784-03

ST-12784-04

ST-12784-05

Reporting Limit
(ug/m3)

MDL
(ug/m3)

Analytes:

Ethyl acetate	ND	ND	ND	ND	ND	1.0	0.4
Ethylbenzene	1.0	1.0	ND	1.0	1.0	1.0	0.1
4-Ethyltoluene	ND	ND	ND	ND	ND	1.0	0.1
4-Isopropyltoluene	ND	ND	ND	3.1	2.8	1.0	0.3
Freon 11	1.5	2.2	2.9	2.0	1.8	1.0	0.2
Freon 12	2.1	2.1	2.2	2.0	2.0	1.0	0.1
Freon 113	1.2	1.2	1.2	0.9 J	1.2	1.0	0.4
Freon 114	ND	ND	ND	ND	0.7 J	1.0	0.2
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	1.0	0.2
2-Hexanone (MBK)	ND	ND	1.7	ND	1.6	1.0	0.2
Isopropyl Alcohol	ND	ND	1.5	ND	ND	10.0	0.6
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	0.1
4-Methyl-2-pentanone (MIBK)	1.0	ND	1.4	1.6	1.0	1.0	0.2
Methylene chloride	0.6 J	0.5 J	0.6 J	0.6 J	1.5	1.0	0.3
MTBE	ND	ND	ND	ND	ND	1.0	0.2
Methylmethacrylate	ND	ND	ND	ND	ND	1.0	0.3
Naphthalene	3.4	4.0	3.0	3.8	3.7	1.0	0.2
Propylene	ND	ND	ND	ND	ND	1.0	0.4
Styrene	ND	ND	ND	ND	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	0.1
Tetrachloroethene	1.7	3.1	2.8	9.7	8.7	1.0	0.2
Tetrahydrofuran	1.7	ND	1.2	ND	1.0	1.0	0.2
Toluene	ND	ND	ND	1.1	1.3	1.0	0.1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	1.0
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	0.2
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	0.2
Trichloroethene	ND	ND	ND	ND	ND	1.0	0.3
1,2,4-Trimethylbenzene	1.9	1.9	1.8	ND	3.0	1.0	0.2
1,3,5-Trimethylbenzene	ND	ND	ND	1.7	ND	1.0	0.3
Vinyl Acetate	ND	ND	ND	ND	ND	1.0	0.3
Vinyl chloride	ND	ND	ND	ND	ND	1.0	0.2
o-Xylene	1.7	1.7	ND	1.6	1.6	1.0	0.1
m/p-Xylene	2.6	2.1	ND	2.2	2.2	2.0	0.2

Tracer:

n-pentane	ND	ND	ND	ND	ND	10.0
n-hexane	ND	ND	ND	ND	22.1	10.0
n-heptane	ND	33.3	31.4	ND	15.4	10.0

Dilution Factor

1 1 1 1 1

Surrogate Recovery:

4-Bromofluorobenzene 98% 99% 99% 98% 98%

QC Limits
60 - 140

TO1-101618- TO1-101618- TO1-101618- TO1-101618- TO1-101618-
IA-CHECKS IA-CHECKS IA-CHECKS IA-CHECKS IA-CHECKS

ND = Value below reporting limit

J = Value below reporting limit but above MDL



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Reseda, CA 91335

Report date: 10/16/2018
Jones Ref. No.: ST-12784

Attn: Justin King

Date Sampled: 10/9/2018

Date Received: 10/9/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda High School

Date Analyzed: 10/15/2018

Physical State: Soil Gas

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	METHOD		
	BLANK		
<u>Jones ID:</u>	HBLK1-101518-01	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:			
Acetone	ND	10.0	0.8
Acrolein	ND	1.0	0.5
Benzene	ND	1.0	0.2
Benzyl chloride	ND	1.0	0.2
Bromodichloromethane	ND	1.0	0.2
Bromoform	ND	1.0	0.1
Bromomethane	ND	1.0	1.0
1,3-Butadiene	ND	1.0	0.2
2-Butanone (MEK)	ND	1.0	0.3
Carbon disulfide	ND	1.0	0.4
Carbon tetrachloride	ND	1.0	0.2
Chlorobenzene	ND	1.0	0.1
Chloroform	ND	1.0	0.2
Cyclohexane	ND	1.0	0.2
Dibromochloromethane	ND	1.0	0.2
1,2-Dibromoethane	ND	1.0	0.2
1,2-Dichlorobenzene	ND	1.0	0.3
1,3-Dichlorobenzene	ND	1.0	0.3
1,4-Dichlorobenzene	ND	1.0	0.3
1,1-Dichloroethane	ND	1.0	0.3
1,2-Dichloroethane	ND	1.0	0.2
1,1-Dichloroethene	ND	1.0	0.5
Cis-1,2-Dichloroethene	ND	1.0	0.5
Trans-1,2-Dichloroethene	ND	1.0	0.2
1,2-Dichloropropane	ND	1.0	0.2
Cis-1,3-Dichloropropene	ND	1.0	0.2
Trans-1,3-Dichloropropene	ND	1.0	0.2
1,4-Dioxane	ND	1.0	0.2
Ethanol	ND	10.0	1.1

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	METHOD		
	BLANK		
<u>Jones ID:</u>	HBLK1-101518-01	<u>Reporting Limit</u> (ug/m3)	<u>MDL</u> (ug/m3)
Analytes:			
Ethyl acetate	ND	1.0	0.4
Ethyl benzene	ND	1.0	0.1
4-Ethyltoluene	ND	1.0	0.1
4-Isopropyltoluene	ND	1.0	0.3
Freon 11	ND	1.0	0.2
Freon 12	ND	1.0	0.1
Freon 113	ND	1.0	0.4
Freon 114	ND	1.0	0.2
Hexachloro-1,3-butadiene	ND	1.0	0.2
2-Hexanone (MBK)	ND	1.0	0.2
Isopropyl Alcohol	ND	10.0	0.6
Isopropylbenzene	ND	1.0	0.1
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.2
Methylene chloride	ND	1.0	0.3
MTBE	ND	1.0	0.2
Methylmethacrylate	ND	1.0	0.3
Naphthalene	ND	1.0	0.2
Propylene	ND	1.0	0.4
Styrene	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	1.0	0.1
Tetrachloroethene	ND	1.0	0.2
Tetrahydrofuran	ND	1.0	0.2
Toluene	ND	1.0	0.1
1,2,4-Trichlorobenzene	ND	1.0	0.2
1,1,1-Trichloroethane	ND	1.0	0.2
1,1,2-Trichloroethane	ND	1.0	0.2
Trichloroethene	ND	1.0	0.3
1,2,4-Trimethylbenzene	ND	1.0	0.2
1,3,5-Trimethylbenzene	ND	1.0	0.3
Vinyl Acetate	ND	1.0	0.3
Vinyl chloride	ND	1.0	0.2
o-Xylene	ND	1.0	0.1
p/m-Xylene	ND	2.0	0.2
Tracer:			
n-pentane	ND	10.0	
n-hexane	ND	10.0	
n-heptane	ND	10.0	
<u>Dilution Factor</u>	1		
<u>Surrogate Recovery:</u>			<u>QC Limits</u>
4-Bromofluorobenzene	99%		60 - 140
	TO1-101618- IA-CHECKS		

ND = Value below reporting limit



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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Reseda, CA 91335

Report date: 10/16/2018
Jones Ref. No.: ST-12784

Attn: Justin King

Date Sampled: 10/9/2018

Project: Reseda High School
Project Address: 18230 Kittridge Street
Reseda High School

Date Received: 10/9/2018

Date Analyzed: 10/15/2018

Physical State: Soil Gas

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN

GC#: TO1-101518-IA-CHECKS

Jones ID:

<u>Parameter</u>	CCV Recovery (%)	CCVD Recovery (%)	<u>RPD</u>	Acceptability Range (%)
Vinyl Chloride	79%	79%	0.0%	70-130
1,1-Dichloroethylene	86%	86%	0.0%	70-130
Cis-1,2-Dichloroethene	91%	79%	14.1%	70-130
1,1,1-Trichloroethane	102%	99%	2.4%	70-130
Benzene	101%	103%	2.4%	70-130
Trichloroethylene	94%	100%	5.8%	70-130
Toluene	102%	102%	0.0%	70-130
Tetrachloroethene	114%	114%	0.0%	70-130
Chlorobenzene	110%	112%	2.2%	70-130
Ethylbenzene	105%	105%	0.0%	70-130
1,2,4 Trimethylbenzene	106%	104%	2.3%	70-130

Surrogate Recovery:

4-Bromofluorobenzene	100%	99%	60 - 140
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MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



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Soil-Gas Chain of Custody Record

LAB USE ONLY

Jones Project #

ST-12784

Page

1 of 1

Sample Condition as Received:

Sealed ☐ yes ☐ no

Sample Container:

If different than above, see Notes.

Purge Number:

☐ 1P ☒ 3P ☐ 7P ☐ 10P

Report Options

EDD

EDF* - 10% Surcharge

*Global ID

Shut-In Test: ☒ Y ☐ N

Flow Rate: 200

If different than above, see Notes.

Turn Around Requested:

- ☐ Immediate Attention
☐ Rush 24 Hours
☐ Rush 48 Hours
☐ Rush 72 Hours
☒ Normal
☐ Mobile Lab

Tracer:

- ☒ n-pentane
☒ n-hexane
☒ n-heptane
☐ Helium
☐ 1,1-DFA
☐

Analysis Requested

Sample Matrix: Soil Gas (SG), Air (A)
EPA 8260B
EPA TO-15
Magnehelic Vacuum (in/H₂O)
Number of Containers

Reporting Limits Requested:

☐ Commercial ☐ Residential

Units:

Client: Persons
Project Name: Reseda High School
Project Address: 18230 K: H: Ridge St
Reseda CA 91335
Email:
Phone:
Report To: Colby

Date: Oct 9 2018
Client Project #

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Cannister ID	Cannister Start Pressure	Cannister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15	Magnehelic Vacuum (in/H ₂ O)	Number of Containers	Notes & Special Instructions
A0C4-SV17-5	3	2810	10/9	J1		ST-12784-01	1582	-29	-5	14:55	15:01			X	5	1	
A0C4-SV17-15	3	2980	10/9	E3		ST-12784-02	1583	-29	-4	14:57	15:02			X	5	1	
A0C4-SV16-5	3	2810	10/9	E3		ST-12784-03	B2451	-30	-5	15:27	15:33			X	5	1	
A0C4-SV16-15	3	2980	10/9	J1		ST-12784-04	1513B	-30	-5	15:25	15:31			X	5	1	
A0C4-SV16-15DP	3	2980	10/9	J1		ST-12784-05	1498	-29	-5	15:25	15:31			X	5	1	

Relinquished By (Signature)

Printed Name

Justin King

Company

Date:

10/9/18

Time:

1545

Relinquished By (Signature)

Printed Name

Company

Date:

Time:

Received By (Signature)

Printed Name

Colby Wakeman

Company

Date:

10-9-18

Time:

Received By Laboratory (Signature)

Printed Name

Company

Date:

Time:

Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
JEL Ref. No.: ST-13162

Attn: Justin King

Date Sampled: 1/3/2019

Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 1/3/2019

Date Analyzed: 1/4/2019

Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in 1 Liter SUMMA Canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

Analytical – Soil Gas samples were analyzed using EPA Method 8260B that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
Jones Ref. No.: ST-13162

Attn: Justin King
Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Sampled: 1/3/2019
Date Received: 1/3/2019
Date Analyzed: 1/4/2019
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV16- 5'	AOC4-SV16- 15'	AOC4-SV16- 15' DUP	AOC4-SV17- 5'	AOC4-SV17- 15'		
<u>Jones ID:</u>	ST-13162-01	ST-13162-02	ST-13162-03	ST-13162-04	ST-13162-05	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	4
Bromobenzene	ND	ND	ND	ND	ND	8	5
Bromodichloromethane	ND	ND	ND	ND	ND	8	6
Bromoform	ND	ND	ND	ND	ND	8	5
n-Butylbenzene	ND	ND	ND	ND	ND	8	3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	2
tert-Butylbenzene	ND	ND	ND	ND	ND	8	3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	4
Chlorobenzene	ND	ND	ND	ND	ND	8	3
Chloroform	ND	ND	ND	ND	ND	8	5
2-Chlorotoluene	ND	ND	ND	ND	ND	8	4
4-Chlorotoluene	ND	ND	ND	ND	ND	8	4
Dibromochloromethane	ND	ND	ND	ND	ND	8	3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	4
Dibromomethane	ND	ND	ND	ND	ND	8	6
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	4
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
Dichlorodifluoromethane	4J	4J	4J	4J	4J	8	3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	7
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	4
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	8

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV16- 5'	AOC4-SV16- 15'	AOC4-SV16- 15' DUP	AOC4-SV17- 5'	AOC4-SV17- 15'		
<u>Jones ID:</u>	ST-13162-01	ST-13162-02	ST-13162-03	ST-13162-04	ST-13162-05	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
Ethylbenzene	ND	ND	ND	ND	ND	8	3
Freon 113	ND	ND	ND	ND	ND	40	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	5
Isopropylbenzene	ND	ND	ND	ND	ND	8	3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	3
Methylene chloride	ND	ND	ND	ND	ND	8	5
Naphthalene	ND	ND	ND	ND	ND	40	2
n-Propylbenzene	ND	ND	ND	ND	ND	8	3
Styrene	ND	ND	ND	ND	ND	8	3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	4
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	6
Tetrachloroethene	9	15	13	5J	ND	8	4
Toluene	ND	ND	ND	ND	ND	8	3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	4
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	4
Trichloroethene	ND	ND	ND	ND	ND	8	4
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	4
Vinyl chloride	ND	ND	ND	ND	ND	8	2
m,p-Xylene	ND	ND	ND	ND	ND	16	6
o-Xylene	ND	ND	ND	ND	ND	8	3
MTBE	ND	ND	ND	ND	ND	40	4
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	3
Di-isopropylether	ND	ND	ND	ND	ND	40	4
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	41
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	40	
n-Hexane	ND	ND	ND	ND	ND	40	
n-Heptane	ND	ND	ND	ND	ND	40	
<u>Dilution Factor</u>	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	98%	95%	91%	101%	96%	60 - 140	
Toluene-d ₈	94%	90%	87%	96%	91%	60 - 140	
4-Bromofluorobenzene	92%	91%	86%	96%	92%	60 - 140	
	F1-010418- 01	F1-010418- 01	F1-010418- 01	F1-010418- 01	F1-010418- 01		

ND= Value less than reporting limit

J = Value below reporting limit but above MDL



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
Jones Ref. No.: ST-13162

Attn: Justin King
Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Sampled: 1/3/2019
Date Received: 1/3/2019
Date Analyzed: 1/4/2019
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV12- 5'	AOC4-SV12- 15'	AOC4-SV5- 5'	AOC4-SV5- 15'	AOC4-SV10- 5'	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Jones ID:	ST-13162-06	ST-13162-07	ST-13162-08	ST-13162-09	ST-13162-10		
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	4
Bromobenzene	ND	ND	ND	ND	ND	8	5
Bromodichloromethane	ND	ND	ND	ND	ND	8	6
Bromoform	ND	ND	ND	ND	ND	8	5
n-Butylbenzene	ND	ND	ND	ND	ND	8	3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	2
tert-Butylbenzene	ND	ND	ND	ND	ND	8	3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	4
Chlorobenzene	ND	ND	ND	ND	ND	8	3
Chloroform	ND	ND	ND	ND	ND	8	5
2-Chlorotoluene	ND	ND	ND	ND	ND	8	4
4-Chlorotoluene	ND	ND	ND	ND	ND	8	4
Dibromochloromethane	ND	ND	ND	ND	ND	8	3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	4
Dibromomethane	ND	ND	ND	ND	ND	8	6
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	4
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
Dichlorodifluoromethane	6J	4J	6J	5J	5J	8	3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	7
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	4
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	8

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV12- 5'	AOC4-SV12- 15'	AOC4-SV5- 5'	AOC4-SV5- 15'	AOC4-SV10- 5'		
<u>Jones ID:</u>	ST-13162-06	ST-13162-07	ST-13162-08	ST-13162-09	ST-13162-10	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
Ethylbenzene	ND	ND	ND	ND	ND	8	3
Freon 113	ND	ND	ND	ND	ND	40	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	5
Isopropylbenzene	ND	ND	ND	ND	ND	8	3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	3
Methylene chloride	ND	ND	ND	ND	ND	8	5
Naphthalene	ND	ND	ND	ND	ND	40	2
n-Propylbenzene	ND	ND	ND	ND	ND	8	3
Styrene	ND	ND	ND	ND	ND	8	3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	4
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	6
Tetrachloroethene	36	167	15	11	481	8	4
Toluene	ND	ND	ND	ND	ND	8	3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	4
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	4
Trichloroethene	ND	ND	ND	ND	ND	8	4
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	4
Vinyl chloride	ND	ND	ND	ND	ND	8	2
m,p-Xylene	ND	ND	ND	ND	ND	16	6
o-Xylene	ND	ND	ND	ND	ND	8	3
MTBE	ND	ND	ND	ND	ND	40	4
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	3
Di-isopropylether	ND	ND	ND	ND	ND	40	4
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	41
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	40	
n-Hexane	ND	ND	ND	ND	ND	40	
n-Heptane	ND	ND	ND	ND	ND	40	
<u>Dilution Factor</u>	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	91%	97%	84%	84%	89%	60 - 140	
Toluene-d ₈	87%	92%	80%	79%	84%	60 - 140	
4-Bromofluorobenzene	86%	91%	80%	76%	82%	60 - 140	
	F1-010418- 01	F1-010418- 01	F1-010418- 01	F1-010418- 01	F1-010418- 01		

ND= Value less than reporting limit

J = Value below reporting limit but above MDL



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Parsons
Client Address: 2201 Dupont Dr. #200
Irvine, CA 92612

Attn: Justin King

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Report date: 1/7/2019
Jones Ref. No.: ST-13162

Date Sampled: 1/3/2019
Date Received: 1/3/2019
Date Analyzed: 1/4/2019
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID: AOC4-SV10-
15'

Jones ID: ST-13162-11

Analytes:

		<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Benzene	ND	8	4
Bromobenzene	ND	8	5
Bromodichloromethane	ND	8	6
Bromoform	ND	8	5
n-Butylbenzene	ND	8	3
sec-Butylbenzene	ND	8	2
tert-Butylbenzene	ND	8	3
Carbon tetrachloride	ND	8	4
Chlorobenzene	ND	8	3
Chloroform	ND	8	5
2-Chlorotoluene	ND	8	4
4-Chlorotoluene	ND	8	4
Dibromochloromethane	ND	8	3
1,2-Dibromo-3-chloropropane	ND	8	8
1,2-Dibromoethane (EDB)	ND	8	4
Dibromomethane	ND	8	6
1,2- Dichlorobenzene	ND	8	4
1,3-Dichlorobenzene	ND	8	3
1,4-Dichlorobenzene	ND	8	3
Dichlorodifluoromethane	4J	8	3
1,1-Dichloroethane	ND	8	4
1,2-Dichloroethane	ND	8	7
1,1-Dichloroethene	ND	8	4
cis-1,2-Dichloroethene	ND	8	5
trans-1,2-Dichloroethene	ND	8	4
1,2-Dichloropropane	ND	8	4
1,3-Dichloropropane	ND	8	3
2,2-Dichloropropane	ND	8	4
1,1-Dichloropropene	ND	8	8

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	AOC4-SV10-15'		
<u>Jones ID:</u>	ST-13162-11		
<u>Analytes:</u>		<u>Reporting Limit</u> <u>(µg/m3)</u>	<u>MDL</u> <u>(µg/m3)</u>
cis-1,3-Dichloropropene	ND	8	3
trans-1,3-Dichloropropene	ND	8	3
Ethylbenzene	ND	8	3
Freon 113	ND	40	5
Hexachlorobutadiene	ND	8	5
Isopropylbenzene	ND	8	3
4-Isopropyltoluene	ND	8	3
Methylene chloride	ND	8	5
Naphthalene	ND	40	2
n-Propylbenzene	ND	8	3
Styrene	ND	8	3
1,1,1,2-Tetrachloroethane	ND	8	4
1,1,2,2-Tetrachloroethane	ND	8	6
Tetrachloroethene	414	8	4
Toluene	ND	8	3
1,2,3-Trichlorobenzene	ND	40	4
1,2,4-Trichlorobenzene	ND	8	3
1,1,1-Trichloroethane	ND	8	5
1,1,2-Trichloroethane	ND	8	4
Trichloroethene	ND	8	4
Trichlorofluoromethane	ND	8	5
1,2,3-Trichloropropane	ND	8	4
1,2,4-Trimethylbenzene	ND	8	3
1,3,5-Trimethylbenzene	ND	8	4
Vinyl chloride	ND	8	2
m,p-Xylene	ND	16	6
o-Xylene	ND	8	3
MTBE	ND	40	4
Ethyl-tert-butylether	ND	40	3
Di-isopropylether	ND	40	4
tert-amylmethylether	ND	40	2
tert-Butylalcohol	ND	400	41
<u>Tracer:</u>			
n-Pentane	ND	40	
n-Hexane	ND	40	
n-Heptane	ND	40	
<u>Dilution Factor</u>	1		
<u>Surrogate Recoveries:</u>		<u>QC Limits</u>	
Dibromofluoromethane	103%	60 - 140	
Toluene-d ₈	98%	60 - 140	
4-Bromofluorobenzene	97%	60 - 140	

F1-010418-01

ND= Value less than reporting limit

J = Value below reporting limit but above MDL



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Parsons
Client Address: 100 W. Walnut Street
Pasadena, CA 91124

Report date: 1/7/2019
Jones Ref. No.: ST-13162

Attn: Justin King

Date Sampled: 1/3/2019

Project: Reseda High School PEA
Project Address: 18230 Kittridge Street
Reseda, CA

Date Received: 1/3/2019

Date Analyzed: 1/4/2019

Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	010418- F1MB1	010418- F1SB1	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:				
Benzene	ND	ND	8	4
Bromobenzene	ND	ND	8	5
Bromodichloromethane	ND	ND	8	6
Bromoform	ND	ND	8	5
n-Butylbenzene	ND	ND	8	3
sec-Butylbenzene	ND	ND	8	2
tert-Butylbenzene	ND	ND	8	3
Carbon tetrachloride	ND	ND	8	4
Chlorobenzene	ND	ND	8	3
Chloroform	ND	ND	8	5
2-Chlorotoluene	ND	ND	8	4
4-Chlorotoluene	ND	ND	8	4
Dibromochloromethane	ND	ND	8	3
1,2-Dibromo-3-chloropropane	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	8	4
Dibromomethane	ND	ND	8	6
1,2- Dichlorobenzene	ND	ND	8	4
1,3-Dichlorobenzene	ND	ND	8	3
1,4-Dichlorobenzene	ND	ND	8	3
Dichlorodifluoromethane	ND	ND	8	3
1,1-Dichloroethane	ND	ND	8	4
1,2-Dichloroethane	ND	ND	8	7
1,1-Dichloroethene	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	8	5
trans-1,2-Dichloroethene	ND	ND	8	4
1,2-Dichloropropane	ND	ND	8	4
1,3-Dichloropropane	ND	ND	8	3
2,2-Dichloropropane	ND	ND	8	4
1,1-Dichloropropene	ND	ND	8	8

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	010418- F1MB1	010418- F1SB1	<u>Reporting Limit</u> (µg/m3)	<u>MDL</u> (µg/m3)
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	3
trans-1,3-Dichloropropene	ND	ND	8	3
Ethylbenzene	ND	ND	8	3
Freon 113	ND	ND	40	5
Hexachlorobutadiene	ND	ND	8	5
Isopropylbenzene	ND	ND	8	3
4-Isopropyltoluene	ND	ND	8	3
Methylene chloride	ND	ND	8	5
Naphthalene	ND	ND	40	2
n-Propylbenzene	ND	ND	8	3
Styrene	ND	ND	8	3
1,1,1,2-Tetrachloroethane	ND	ND	8	4
1,1,2,2-Tetrachloroethane	ND	ND	8	6
Tetrachloroethene	ND	ND	8	4
Toluene	ND	ND	8	3
1,2,3-Trichlorobenzene	ND	ND	40	4
1,2,4-Trichlorobenzene	ND	ND	8	3
1,1,1-Trichloroethane	ND	ND	8	5
1,1,2-Trichloroethane	ND	ND	8	4
Trichloroethene	ND	ND	8	4
Trichlorofluoromethane	ND	ND	8	5
1,2,3-Trichloropropane	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	8	3
1,3,5-Trimethylbenzene	ND	ND	8	4
Vinyl chloride	ND	ND	8	2
m,p-Xylene	ND	ND	16	6
o-Xylene	ND	ND	8	3
MTBE	ND	ND	40	4
Ethyl-tert-butylether	ND	ND	40	3
Di-isopropylether	ND	ND	40	4
tert-amylmethylether	ND	ND	40	2
tert-Butylalcohol	ND	ND	400	41
TIC:				
n-Pentane	ND	ND	40	
n-Hexane	ND	ND	40	
n-Heptane	ND	ND	40	
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>			<u>QC Limits</u>	
Dibromofluoromethane	96%	86%	60 - 140	
Toluene-d ₈	93%	78%	60 - 140	
4-Bromofluorobenzene	91%	79%	60 - 140	

F1-010418- F1-010418-
01 01

ND= Value less than reporting limit

J = Value below reporting limit but above MDL



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	Report date:	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	Jones Ref. No.:	ST-13162
Attn:	Justin King	Date Sampled:	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	Date Analyzed:	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	Physical State:	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID:	F1-010418-01					
Jones ID:	010418-F1LCS1	010418-F1LCSD1		010418-F1CCV1		
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	115%	114%	0.7%	60 - 140	106%	80 - 120
1,1-Dichloroethene	104%	104%	0.1%	60 - 140	103%	80 - 120
Cis-1,2-Dichloroethene	106%	105%	0.9%	70 - 130	104%	80 - 120
1,1,1-Trichloroethane	107%	105%	1.6%	70 - 130	104%	80 - 120
Benzene	116%	115%	0.8%	70 - 130	113%	80 - 120
Trichloroethene	116%	116%	0.1%	70 - 130	114%	80 - 120
Toluene	120%	118%	1.5%	70 - 130	116%	80 - 120
Tetrachloroethene	119%	117%	1.2%	70 - 130	114%	80 - 120
Chlorobenzene	117%	115%	2.0%	70 - 130	115%	80 - 120
Ethylbenzene	110%	110%	0.8%	70 - 130	109%	80 - 120
1,2,4 Trimethylbenzene	107%	105%	2.5%	70 - 130	107%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	104%	103%		60 - 140	99%	60 - 140
Toluene-d ₈	98%	97%		60 - 140	94%	60 - 140
4-Bromofluorobenzene	105%	106%		60 - 140	99%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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Santa Fe Springs, CA 90670
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Air Chain-of-Custody Record

Client: Parsons

Project Name: Reseda High School PEA

Project Address: 18230 Kittredge Street

Reseda, CA

Email: _____

Phone: _____

Report To: Justin King Sampler: AND

Date: 01-03-19

Purge Rate: _____ cc/min

Client Project #: _____

Shut In Test: Y / N

Turn Around Requested:

☐ Immediate Attention

Rush:

☐ 24hr ☐ 48hr

☐ 72hr ☐ 96hr

☒ Normal

Tracer:

☐ n-pentane

☐ Helium

☐ _____

Purge Number:

☐ 1 PV

☐ 3 PV

☐ 7 PV

☐ 10 PV

Jones Project # ST-13162

Page 1 of 2

Analysis Requested

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H ₂ O)	Number of Containers
AOC4-SV16-S'	1-3-19	3	2810	ST-13162-01	B2458	-30	-4	200	0741	0750		X		1
AOC4-SV16-1S'	1-3-19	3	2980	ST-13162-02	B2443	-30	-5	200	0741	0748		X		1
AOC4-SV16-1S' DUP	1-3-19	3	2980	ST-13162-03	B2453	-30	-5	200	0741	0748		X		1
AOC4-SV17-S'	1-3-19	3	2810	ST-13162-04	01179	-30	-5	200	0759	0807		X		1
AOC4-SV17-1S'	1-3-19	3	2980	ST-13162-05	B2442	-32	-5	200	0800	0807		X		1
AOC4-SV12-S'	1-3-19	3	1630	ST-13162-06	1498	-25	-5	200	0813	0821		X		1
AOC4-SV12-1S'	1-3-19	3	1790	ST-13162-07	151313	-30	-5	200	0815	0822		X		1
AOC4-SVS-S'	1-3-19	3	1630	ST-13162-08	B2423	-30	-5	200	0825	0832		X		1
AOC4-SVS-1S'	1-3-19	3	1790	ST-13162-09	B2420	-28	-5	200	0820	0832		X		1
AOC4-SV10-S'	1-3-19	3	1630	ST-13162-10	B2430	-30	-5	200	1532	1539		X		1

Relinquished By (Signature):

Company: Parsons

Relinquished By (Signature):

Company:

Date:

1-3-19

Time:

1600

Date:

Time:

Received By (Signature):

Company: TEL

Received By Laboratory (Signature):

Company:

Date:

1-3-19

Time:

1600

Date:

Time:

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth

