



Appendix E. Phase II Environmental Site Assessment

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Limited Phase II Environmental Site Assessment

**Assessor's Parcel Numbers
7267-001-900, -901, -902, -903, -904,
-905-, & -906
1500 to 1546 E Anaheim Street and
1205 to 1209 Walnut Avenue
Long Beach, California 90813**

Presented to:

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Presented by:

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March 21, 2019
Project Number: 01211126.01

March 21, 2019

Project Number: 01211126.01

Mr. Jeff Williams
BRIDGE Housing – Southern California
2202 30th Street
San Diego, California 92104

Subject: Limited Phase II Environmental Site Assessment (Subsurface Assessment)

**Site: Assessor's Parcel Numbers (APNs) 7267-001-900, -901, -902, -903, -904, -905, & -906
1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813**

Dear Mr. Williams:

SCS Engineers (SCS) is pleased to present this report (Report) of the Subsurface Assessment of the above-described Site that was conducted in order to evaluate the Site's current environmental conditions. The work described in this Report was performed by SCS in general accordance with Scope of Services Change Number 1 (SSC1) to Exhibit 01 to the Consulting Services Agreement (Contract) between SCS and BRIDGE Housing – Southern California (Client). SSC1 was fully executed on February 7, 2019. The Contract is dated January 16, 2019.

SCS enjoyed working with you on this project. Providing economical environmental solutions to meet your needs is more than our goal—it is our mission and the measure of our success. If we may assist you in any way, now or in the future, please call our office at (858) 571-5500.

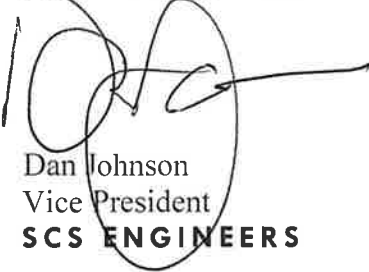
Sincerely,



Ian Jimeno
Staff Professional
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SCS ENGINEERS



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1 BACKGROUND

Based on conversations with BRIDGE Housing – Southern California (Client) and a review of in-house databases, SCS Engineers (SCS) understands that 1500 to 1546 E Anaheim Street and 1205 to 1209 Walnut Avenue, Long Beach, California (Site) consists of seven parcels of land comprising approximately 1.541 acres in Long Beach, California (Figure 1). The Site is currently unpaved vacant land with gravel surfacing and a fence built around the perimeter. SCS understands the Client is considering redeveloping the Site with a slab-on-grade, 4-story affordable housing residential building over one level of office space on the eastern portion of the Site, with a slab-on-grade, 4-story parking garage on the western portion of the Site, with additional mixed use occupied space to be developed along the northern boundary of the Site to the north of the parking structure. Minor amounts of soil export will likely be required for soils generated from footings, utility trenches, etc.

SCS recently completed the following reports for the Site:

- *Phase I Environmental Site Assessment*, dated February 1, 2019 (Phase I ESA).

The Phase I ESA reported the following potential recognized environmental conditions at the Site:

“With the possible exception below, this Assessment has revealed no evidence of a recognized environmental condition in connection with the Site.

Historical Dry Cleaning Facility and Underground Storage Tanks

“Based on a review Client-provided reports, the western parcel at the Site historically operated three USTs and dry cleaning operations. A Phase II ESA was conducted in 2006 that included 10 soil vapor samples advanced to 5 feet deep, and seven soil borings advanced to 20 feet deep. Of the 10 soil vapor samples collected and analyzed during the soil vapor survey, with the exception of a trace concentration of toluene in one sample, none of the samples were reported to contain volatile organic compounds (VOCs) above laboratory reporting limits. Sample SV5-5, located on the eastern side of the western parcel at the Site, was reported with concentrations of 1.2 micrograms per liter (µg/L) of toluene. This concentration was reported to be below the California Human Health Screening Levels (CHHSLs) for shallow soil gas (less than five feet below ground surface) at industrial/commercial sites.

“Soil boring SB6-1, located at the southeastern portion of the test area was reported with concentrations of tetrachloroethene (PCE) (89 micrograms per kilogram [µg/kg]) and trichloroethene (TCE) (10 µg/kg). A sample collected at 5 feet deep in this same location was non-detect for PCE and TCE, indicating that the vertical extent of impacts was limited. Soil samples SB6-5 and SB7-1 were selected for metals analysis. All of the metals were detected at concentrations below or within the typical range for California soils.

“In summary, the Phase II ESA results did not identify impacts by TPH, VOCs, or metals above regulatory limits. Based on this information, in the 2006 Phase II ESA, SCS recommended no further investigation or remediation of the western portion of the Site.

“Note; however, that since the Phase II ESA was conducted in 2006, soil vapor health risk screening levels have become much more conservative, and soil vapor sampling laboratory reporting limits have been modified to be significantly lower. Although several constituents of concern (CoCs) that are typically present at dry cleaners were not reported in the soil vapor survey, such as tetrachloroethene, since the detection limits are currently significantly lower, as well as the vapor screening levels, it is possible that CoCs are present in the soil vapor at the Site that weren’t detected in the 2006 Phase II ESA that could still be above current residential vapor screening levels, which SCS considers to be a potential recognized environmental condition. Therefore, since the Site historically contained three USTs and operated as a former dry cleaners, and considering that the Site land use is proposed to change to residential, in order to be conservative, SCS recommends that the soil vapor at the Site be re-assessed.

Historical Auto Repair Facility

“An automotive repair facility was reportedly located at the 1530 E Anaheim Street portion of the Site (north-central portion of the Site) from circa 1957 to 1963. Based on SCS’s experience, other features of environmental concern (e.g., wastewater clarifier systems, in-ground hydraulic lifts or unreported USTs, etc.) are often associated with automotive repair facilities and may be present at the Site.

“Based on SCS’s experience, these features often experience releases that result in the presence of volatile organic compounds (VOCs) and/or petroleum hydrocarbons in the soil and possibly groundwater near the automotive repair stations. Although no such releases were noted in the regulatory records reviewed, it is interpreted that this facility was reportedly present prior to the time of regulatory oversight. Based on the length of time the automotive repair facility operated on Site (at least 6 years), the potential features of concern that are associated with automotive repairs, and the lack of subsurface sampling done at the Site, there is a moderate likelihood that a recognized environmental condition exists at the Site.

“SCS cannot assess where these features were located at the Site. In order to assess if these features are/were present and if releases are associated with these features, subsurface assessment activities (e.g., geophysical survey, soil vapor sampling activities, etc.) would be required.

Lead-Based Paint, Pesticides and Termiticides

“Based on the fact that the Site has been developed with residential buildings as early as 1924, the potential exists for the presence of concentrations of lead and organochlorine pesticides (OCPs) to be present in the soil due to the historical potential use of lead-based paint, pesticides, and/or termiticides. SCS understands that the Site is currently developed with a building with hard scape and/or landscaping. Therefore, if termiticides, pesticides,

and/or lead-based paint residues were present in the soil at the Site, there is a low likelihood of open routes of exposure to these soils and a corresponding low likelihood of a recognized environmental condition.

“However, if redevelopment activities include extensive grading, soil excavation, or soil export, we recommend that limited soil sampling be conducted as a precautionary measure to ensure that future occupants of Site buildings, construction workers, and others are not exposed to elevated concentrations of lead and/or OCPs, if present. In addition, if soil is to be excavated and exported as part of redevelopment activities, soil sampling should be conducted to assess whether the soil contains concentrations of lead and/or OCPs that would cause the soil to be classified as a hazardous or regulated waste.”

Based on conversations with the Client, the scope of services developed for this Subsurface Assessment included performing a geophysical survey of interpreted area of the former dry cleaning operations and historical auto repair facility to assess for current or former underground storage tanks as well as features of potential concern; soil and soil vapor sampling to assess potential features of environmental concern for constituents of concern (CoCs) including petroleum hydrocarbons (TPH), organochlorine pesticides (OCPs), volatile organic compounds (VOCs), and metals. The concentrations of these CoCs were then compared to waste disposal and health risk screening criteria, including the Environmental Protection Agency (EPA) regional screening levels¹ (RSLs) that apply to health risk. In addition, a human health risk assessment was performed per current Department of Toxic Substances Control (DTSC) guidelines.

2 OBJECTIVES

The objectives of the scope of services were to:

- Assess the possible presence of geophysical anomalies in the accessible exterior areas of the Site, which might be indicative of the current and/or former USTs and other features of environmental concern (e.g., fuel dispenser islands, wastewater clarifier systems, in-ground hydraulic lifts) to allow for focused soil and soil vapor sampling of these areas, if present.
- Collect soil and soil vapor samples to assess the possible presence and concentrations of petroleum hydrocarbons and volatile organic compounds (VOCs) in connection with the former dry cleaners and auto repair facility at the Site.
- Collect shallow soil samples to assess the possible presence and concentrations of lead and organochlorine pesticides in connection with the historical structures at the Site dating back to the 1920s and the potential use of lead-based paint, pesticides, and/or termiticides.

¹ *Regional Screening Levels [RSLs] for Chemical Contaminants at Superfund Sites*, United States EPA, updated November 2018.

- Assess the likelihood that a Significant² human health risk exists at the Site as a result of vapor phase migration of VOCs.

3 SUBSURFACE ASSESSMENT

The Subsurface Assessment activities described herein were conducted based on the recommendations made in the Phase I ESA regarding the presence of USTs, a former dry cleaning facility, an automotive repair facility, lead-based paint, pesticides, and termiticides. Subsurface Assessment activities consisted of performing a geophysical investigation in accessible areas of the Site to assess for USTs and other subsurface features of environmental concern; advancing soil and soil vapor borings in the interpreted locations of the former USTs and excavations based on the geophysical investigation, the former dry cleaner, and the auto repair facility; and subsequently conducting a human health risk assessment. Constituents of concern (CoCs) evaluated as a part of this Subsurface Assessment included total petroleum hydrocarbons within the gas, diesel, and oil range (TPHg, TPHd, and TPHo, respectively), elevated levels of lead and/or Title 22 Metals, pesticides, and VOCs.

PREPARATION FOR FIELDWORK

Preparation of Health and Safety Plan

A health and safety plan for work conducted at the Site and for workers within the “exclusion zone” is required pursuant to the regulations found in 29 Code of Federal Regulations Part 1910.120 and California Code of Regulations, Title 8, Section 5192. Therefore, a health and safety plan was prepared for the proposed work scope, which outlined the potential chemical and physical hazards that may have been encountered during drilling and sampling activities. The appropriate personal protective equipment and emergency response procedures for the anticipated Site-specific chemical and physical hazards were detailed in this plan. SCS personnel involved with the field work were required to read and sign this document in order to encourage proper health and safety practices.

Utility Search and Markout

SCS notified Underground Service Alert on February 12, 2019, as required by state law, prior to drilling and sampling activities and was issued ticket number A190430214-00A. In addition, a geophysical survey (discussed in the ‘Geophysical Survey’ section below) was conducted that included clearance of the proposed boring locations for possible subsurface utility conflicts. These procedures were designed to minimize the likelihood of drilling into a subsurface utility. The soil boring and soil vapor locations were adjusted as necessary to avoid conflicts with identified subsurface utilities.

² For the purposes of this assessment, Significant is defined as greater than one in 1,000,000 excess lifetime cancer risk.

FIELD ACTIVITIES

Geophysical Survey

On February 13, 2019, SCS's subcontractor, Southwest Geophysics, conducted a limited geophysical survey in accessible portions of the Site (Figure 2) in order to assess for the possible presence of current or former USTs, FOPCs, and/or backfilled excavations associated with possible removal of the three USTs in connection with the former auto repair station and dry cleaners at the Site. The approximate location of the USTs was determined by a previous Phase I assessment conducted by SCS Engineers in 2006, which reported three former USTs that were removed from the former dry cleaning facility located the western portion of the Site based on Long Beach Fire Department records. A flammable liquids permit indicates that two 1,000-gallon and one 6,000-gallon USTs were removed from the Site on February 22, 1971. Based on this evaluation, the location of the former USTs was interpreted to be the southwestern portion of the Site. In addition, the city directories listed the address 1530 E Anaheim Street as an automotive repair facility from circa 1957 to 1963. The geophysical survey was conducted of the entire Site. Southwest Geophysics used several instruments including an EM61, GPR, and M-Scope TW-6. The high resolution EM61 instrument was used for detecting buried conductive objects. This generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The GPR instrument beams energy into the ground from its transducer/antenna in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at boundaries in the subsurface across which an electrical contrast exists. The M-Scope TW-6 device energizes the ground by producing an alternating primary magnetic field with alternating current, thus receiving any eddy currents induced by subsurface conductors.

The results of the geophysical survey did not reveal the obvious presence of USTs. However, one significant backfilled excavation, possible candidate electromagnetic (EM) anomalies, and several relatively small anomalies along with underground lines were discovered in the study area (see the Geophysical Evaluation Report in the Appendix). The three possible candidate anomalies are located at the western portion of the Site, within the former automotive repair lot at the 1530 E Anaheim Street address (1530), and at the northeastern portion of the Site. In addition, a significant excavation anomaly was reported adjacent to the south of northeastern electromagnetic anomaly.

Based on the size and shape of the EM response, the western and northeastern anomalous EM features reportedly could be related to an unknown buried object such as a UST or buried metal debris, and the 1530 EM anomaly could be related to a building foundation. Several relatively small anomalies were also encountered in the geophysical study (see Figure 2 within the Geophysical Evaluation Report in Appendix A). The possible candidate anomalies were further evaluated with soil boring SCS10 and soil vapor SV17-5 (western anomaly), soil boring SCS12 and soil vapor SV20-5 and SV21-5 (1530 anomaly), and soil vapor SV22 (northeastern anomaly). The significant backfilled excavation was also evaluated by soil vapor probe SV22. No additional anomalous EM or magnetic responses were associated with the possible excavation features.

Although the obvious presence of USTs and other features of potential concern (FOPCs) were not reported in the study area, the ability for the geophysical methods to detect subsurface features is limited by several conditions including, but not limited to, soil type, cultural interferences, and precipitation. Although the geophysical survey results do not indicate the obvious presence of USTs or other target features, the Client is cautioned that USTs or other features may still be present at the Site despite the survey results. In our experience, the only way to comprehensively evaluate the possible presence of USTs at the Site is to conduct extensive excavation, trenching, or grading operations.

Data Gaps and Limitations

The drilling and sampling program was designed based on the results of the Phase I ESA, our experience, and the results of the geophysical survey. While building and fire department permits and records were reviewed, scaled maps of the former USTs were not available. To attempt to overcome this data gap, SCS employed geophysical methods, as described above. Due to methodology and Site limitations, the geophysical survey did not provide obvious evidence of USTs, large excavations, or other metallic objects possibly associated with USTs. In light of these limitations, SCS personnel reviewed the historic Sanborn maps as well as previous Phase I ESAs and city directories conducted to attempt to identify the location of the former USTs. The data from our review of the previous reports, Sanborn maps, and city directories suggest an approximate location of the former USTs, and SCS personnel advanced several borings in this area to assess for possible releases (Figure 2), even though there were no obvious indications of USTs in the geophysical survey.

Because exact or measured UST locations could not be identified, this represents a data gap that was addressed within the limitations of this investigation. Grading or more comprehensive investigations using trenching or other methods would be required to address this data gap.

Soil Sampling and Analysis

On February 20, 2019, SCS advanced 8 soil borings (SCS8 through SCS15) to a maximum depth of 10 feet below ground surface (bgs) in the interpreted general location of the EM anomalies, the area of the former dry cleaners at the western portion of the Site, the 1530 E Anaheim Street address (the location of the historical auto repair facility), the northeastern EM anomalies and backfilled excavation, and within representative areas of the footprint of the proposed residential/commercial building³, with soil samples collected at approximate various depths to a maximum depth of 10 feet bgs (Figure 2). The table below summarizes the sample identification numbers and originally proposed depths of soil samples to be collected in feet bgs for the Site, as well as laboratory analysis that was conducted for each of the borings.

All one foot samples from each soil boring (SCS8-1, SCS9-1, SCS10-1, SCS11-1, SCS12-1, SCS13-1, SCS14-1, and SCS15-1) were analyzed for lead in general accordance with EPA Method 6010B, and OCPs in general accordance with EPA Method 8081. The one and three foot samples of SCS8, SCS9, SCS10, SCS11, and SCS12 were analyzed for TPHg, TPHd, and

³ Based on the proposed Site Plan titled *Anaheim Street and Walnut Avenue* by SVA Architects dated October 20, 2018

TPHo in general accordance with EPA Method 8015B. The one foot samples of SCS8, SCS9, SCS10, SCS11, and SCS12, and the three foot samples of SCS8, SCS9, SCS10, and SCS11 were analyzed for VOCs in general accordance with EPA Method 8260B.

Boring Number	Location	Approximate Sample Depths (feet bgs)	Laboratory Analyses
SCS8, SCS9, SCS10	Western parcel at the Site, in representative areas of the former dry cleaner that have not been previously assessed, and in areas identified by the geophysical survey with significant anomalies	1, 3, and 5	TPH – 1, 3 feet bgs VOCs – 1, 3 feet bgs Lead – 1 foot bgs and SCS 10-3 STLC – SCS10-1 OCPs – 1 foot bgs Metals – SCS10-1 Arsenic – 1 foot bgs and SCS 10-3
SCS11, SCS12	Northwestern portion of the eastern parcels at the Site, at the former automotive repair lot (1530 E Anaheim Street), in representative portions of the lot and in areas identified by the geophysical survey with significant anomalies	1, 3, 5, 8, and 10	TPH – 1, 3 feet bgs VOCs – 1 foot bgs Lead and arsenic – 1 foot bgs STLC – SCS12-1 OCPs – 1 foot bgs Metals – SCS12-1
SCS13, SCS14, SCS15	In representative portions of the remainder of the eastern parcels at the Site, in order to assess for lead and OCPs	1	Lead and arsenic – 1 foot bgs STLC – SCS14-1 OCPs – 1 foot bgs Metals – SCS14-1

Notes:

bgs: Below ground surface.

TPH: Extended range total petroleum hydrocarbons in general accordance with Environmental Protection Agency (EPA) Method 8015M

Lead: Total lead in general accordance with EPA Method 6010B

STLC: Soluble Threshold Limit Concentration with EPA Method 6010B

VOCs: Volatile organic compounds in general accordance with EPA Method 8260B

Metals: Title 22 Metals in general accordance with EPA Method 6010B

OCPs: Organochlorine Pesticides in general accordance with EPA Method 8081

The soil borings were advanced by use of a direct-push drill rig. Soil samples were collected using a stainless steel drilling rod with an internal, approximately 1.5-inch diameter, acetate liner. Each selected sample interval was capped with Teflon tape and plastic caps. The acetate sleeves were labeled and placed in an ice-filled cooler for shipment to the laboratory. Chain-of-custody procedures were implemented for sample tracking.

Pursuant to SCS's standard operating procedures, the sampling equipment was decontaminated on Site between soil borings and soil samples to minimize the likelihood of cross-contaminating the samples and to minimize the potential for a false positive in the soil samples analyzed.

Soil samples were submitted to American Scientific Laboratories, LLC (ASL), a fixed-base, State-accredited laboratory.

Based on the initial results for lead, soil sample SCS10-3 was chosen for additional analysis for Title 22 Metals, soil samples SCS8-1, SCS9-1, SCS11-1, SCS13-1, and SCS15-1 were analyzed for arsenic, and soil samples SCS10-1, SCS12-1, and SCS14-1 were chosen for additional

analysis for lead leachability (Soluble Threshold Limit Concentration [STLC]) and Title 22 Metals (except for SCS14-1) in general accordance with EPA Method 6010B.

Soil Vapor Sampling and Analysis

SCS advanced twelve soil vapor borings to assess the possible presence and concentrations of VOCs in soil vapor in connection with the historical dry cleaner facility, the auto repair facility at 1530 E Anaheim Street, the filled-in excavation, and in connection with the proposed building footprint (Figure 2 and Figure 5). The soil vapor borings, sample depth, and locations are summarized in the table below.

Vapor Boring ID	Location	Sample Depth (feet bgs)
SV13 through SV18	Western parcel at the Site located in representative areas of the former dry cleaner that have not been previously assessed, and/or in areas identified by the geophysical survey with significant anomalies. Also includes the western building footprint described as Residential Parking*.	5 (SV17 was 3 feet bgs due to high vacuum at 5 feet deep)
SV19, SV20, SV21	Northwestern portion of the eastern parcels at the Site, at the former automotive repair lot, in either representative portions of the lot, and/or in areas identified by the geophysical survey with significant anomalies. Also includes the proposed lobby and reception area*.	5 (SV19 and SV20 were 3 feet bgs due to high vacuum at 5 feet deep)
SV22, SV23, SV24	In representative portions of the remainder of the eastern parcels at the Site in order to assess for lead and OCPs. Also includes the proposed commercial-use units such as reception areas, offices, exam rooms, and pharmacies*.	5

Notes:

BGS: Below ground surface.

OCPs: Organochlorine pesticides in general accordance with EPA Method 8081

*Proposed building areas are reported from *Anaheim Street and Walnut Avenue* created by SVA Architects on October 20, 2018

Soil vapor sampling activities were conducted in accordance with the California Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board (RWQCB), and San Francisco RWQCB Advisory on Active Soil Gas Investigations, dated July 2015. The soil vapor borings were advanced by use of a strataprobe direct push drilling rig. Subsequent to completion of each borehole, a temporary soil vapor sampling probe was constructed. Soil vapor inlet ports constructed of stainless steel were fastened to disposable inlet port anchor tips at the base of each boring. Nylaflow™ tubing was connected to each inlet port and extended to above grade for connection to soil vapor sample vessels. An appropriate sand pack a minimum of 12 inches thick was placed around the soil gas probe tip, and the boring was backfilled with at least 6 inches of dry granular bentonite, topped with hydrated granular bentonite to the surface to provide an appropriate seal. The borings were then allowed to equilibrate for at least 120 minutes prior to sample collection.

A total of thirteen soil vapor samples were collected (twelve samples plus a replicate) from the soil vapor sampling probes by collecting soil vapor drawn through the probes into laboratory-provided glass syringes subsequent to purging the DTSC default of three purge volumes of soil vapor. Prior to sample collection, a shut-in test was performed, approximately three purge volumes were removed, and a leak check compound was applied during sampling. Soil vapor

samples were delivered to an on-Site, state-certified mobile laboratory (H&P Mobile Geochemistry) and analyzed for VOCs in general accordance with U.S. Environmental Protection Agency Method 8260SV. In accordance with the DTSC guidance, one replicate sample was analyzed (SV22-5 REP). Chain-of-custody procedures were implemented for sample tracking.

Two soil vapor probes were also analyzed for oxygen (SV14-5 and SV21-5) to calculate the amount of oxygen in the subsurface. The oxygen samples were collected in Tedlar bags and were delivered to a state-certified laboratory (H&P Mobile Geochemistry Laboratories) and analyzed for oxygen in general accordance with ASTM D1945. Chain-of-custody procedures were implemented for sample tracking.

4 SUBSURFACE ASSESSMENT - FINDINGS

A summary of the laboratory results for TPH, lead, OCPs, VOCs, and Title 22 Metals for the soil samples analyzed is summarized below, as well as the soil vapor sampling for VOCs and oxygen. The data is also presented in the Tables and depicted on Figures 3, 4, and 5. Laboratory analytical reports are included in Appendix B.

SOIL SAMPLE ANALYTICAL RESULTS

Lead

Soil sample results for lead are presented in Table 1 and Figure 3. Eight soil samples collected from 1-foot bgs (SCS8, SCS9, SCS10, SCS11, SCS12, SCS13, SCS14, SCS15) and one soil sample 3-feet bgs (SCS10) were analyzed for lead. Lead concentrations were reported above the laboratory reporting limits for all samples analyzed at concentrations ranging from 3.80 to 90.9 milligrams per kilogram (mg/kg) (Table 1).

The following table summarizes the reported lead concentrations and compares them to the California Human Health Screening Levels⁴ (CHHSLs).

4 Office of Environmental Health Hazard Assessment, California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties, dated September 2010.

Sample Identifier	Depth (feet bgs)	EPA Method 6010B (mg/kg)
		Lead
SCS8-1	1	3.80
SCS9-1	1	6.39
SCS10-1	1	90.9
SCS10-3	3	9.87
SCS11-1	1	5.40
SCS12-1	1	66.4
SCS13-1	1	15.2
SCS14-1	1	59.1
SCS15-1	1	8.70
Residential CHHSL (mg/kg)		80
Commercial CHHSL (mg/kg)		320

Notes:

bgs: below ground surface

EPA: U.S. Environmental Protection Agency

mg/kg: milligrams per kilogram

CHHSL: California Human Health Screening Levels (September 23, 2010)

Bold: concentration above the Residential CHHSL

As indicated in the table above, eight of the soil samples analyzed for lead were reported to have concentrations of lead below the residential and commercial CHHSLs of 80 mg/kg and 320 mg/kg, respectively, for lead. One soil sample (SCS10-1) was reported to have a concentration of lead above the residential CHHSL of 80 mg/kg.

Soil samples SCS10-1, SCS12-1, and SCS14-1 were additionally analyzed for their respective Soluble Threshold Limit Concentration (STLC). Soil samples SCS10-1 and SCS 12-1 were reported above the laboratory reporting limits with concentrations of 4.65 milligrams per liter (mg/L) and 1.60 mg/L respectively, and SCS14-1 was reported below the laboratory reporting limit.

Title 22 Metals

Samples SCS10-1, SCS12-1, and SCS14-1 were analyzed for Title 22 Metals, and SCS8-1, SCS9-1, SCS11-1, SCS13-1, SCS14-1, and SCS15-1 were additionally analyzed for arsenic. All nine of the soil samples analyzed for arsenic were reported to exceed the EPA Regional Screening Levels for residential users (RSLs) dated November 2018, which is used to screen soil samples for potential health risk (Table 2). Arsenic was reported with concentrations ranging from 3.07 mg/kg (SCS11-1) to 32.9 mg/kg (SCS10-1), which exceeds the RSL of 0.68 mg/kg.

Total Petroleum Hydrocarbons

Soil sample results for TPHg, TPHd, and TPHo are presented in Table 3 and Figure 4.

Concentrations of TPHg, TPHd, and TPHo were reported below the laboratory reporting limits in all ten soil samples analyzed.

Volatile Organic Compounds

Soil sample results for VOCs are presented in Table 4 and Figure 4.

Concentrations of VOCs were reported below the laboratory reporting limits in all nine soil samples analyzed (SCS8-1, SCS8-3, SCS9-1, SCS9-3, SCS10-1, SCS10-3, SCS11-1, SCS12-1, and SCS12-3).

In the 2006 Phase II ESA, PCE and TCE were reported in soil sample SB6-1 collected from 1 foot bgs at concentrations of 89 µg/kg and 10 µg/kg, respectively. No other VOCs were reported in sample SB6-1, and no VOCs were reported in the remaining 14 soil samples collected during the 2006 Phase II ESA.

Organochlorine Pesticides (OCPs)

Soil sample results for OCPs are presented in Table 5 and Figure 4.

Eight soil samples were collected and analyzed for OCPs at a depth of 1-foot bgs (SCS8-1, SCS9-1, SCS10-1, SCS11-1, SCS12-1, SCS13-1, SCS14-1, and SCS15-1). With the exception of SCS13-1 and SCS14-1, none of the soil samples analyzed for OCPs were reported with concentrations above the laboratory reporting limits.

Soil sample SCS13-1 had reported concentrations of OCPs including gamma-chlordane (34.0 micrograms per kilogram [µg/kg]), alpha-chlordane (25.9 µg/kg), 4,4'-dichlorodiphenyldichloroethane (DDD) (17.2 µg/kg), 4,4'-dichlorodiphenyldichloroethylene (DDE) (6.01 µg/kg), dieldrin (35.0 µg/kg), endrin aldehyde (4.56 µg/kg), and total chlordane (254 µg/kg). All other analyzed constituents were reported below the laboratory reporting limit.

Because the Client proposes to develop the Site with residential units, SCS compared the dieldrin concentration with its respective EPA Regional Screening Level (RSL) for residential users (November 2018). The constituent dieldrin was reported to be above the RSL for residential soil (34 µg/kg). No other constituent was reported to be above their respective RSL value for residential soil. Details describing the human health risks attributed to the dieldrin concentration on Site are described in the "Human Health Risk Assessment (HHRA)" section below.

Soil Sample SCS14-1 had reported concentrations of OCPs including gamma-chlordane (5.12 µg/kg), alpha-chlordane (15.1 µg/kg), 4,4'-DDD (26.2 µg/kg), 4,4'-DDE (174 µg/kg), 4,4'-dichlorodiphenyltrichloroethane (DDT) (11.9 µg/kg), and dieldrin (7.60 µg/kg). All other analyzed constituents were reported below the laboratory reporting limits.

RISK-BASED SCREENING CRITERIA

A guidance document titled, *Regional Screening Levels (RSL) Summary Table* (November 2018), has been developed by the EPA to "predict the probability, nature, and magnitude of the adverse health effects that may occur." According to this document, "It should

be emphasized that screening levels (SLs) are not cleanup standards. Site-specific information may warrant modifying the default parameters in the equations and calculating site-specific SLs, which may differ from the values in these tables.”

For the purposes of this Assessment, the CoCs were conservatively compared to their respective residential RSL (or CHHSL for lead), and are further discussed below.

Lead

Lead was detected above the laboratory reporting limit in all nine samples analyzed. One soil sample (SCS10-1) was reported with 90.9 mg/kg lead, above the residential CHHSL of 80 milligrams per kilogram (mg/kg). Note that this sample was also reported with 32.9 mg/kg arsenic, which is above the arsenic RSL and above naturally occurring background concentrations for arsenic. The next deepest sample collected from this boring, SCS10-3 collected from 3 feet bgs, was reported with 9.87 mg/kg lead and 7.81 mg/kg arsenic, which are below the CHHSL for lead and the RSL for arsenic, and are within naturally occurring background concentration ranges.

Since soil represented by sample SCS10-1 exceeds applicable health risk screening criteria for residential users, it is recommended that this soil be properly excavated, segregated, and managed during construction (i.e., either through on-Site reuse/burial under a clean soil cap, or through export). Potential mitigation measures are further discussed in the “Mitigation” section below.

Other Metals

Of the three soil samples analyzed for metals, and six soil samples analyzed specifically for arsenic, all soil samples were reported above the laboratory reporting limit for at least one Title 22 metal. With the exception of arsenic (discussed below) and lead (discussed above), all Title 22 metals were reported to be below their respective RSLs for residential users. All nine of the soil samples were reported with concentrations of arsenic above the laboratory reporting limit ranging from 3.07 mg/kg (SCS11-1) and 32.9 mg/kg (SCS10-1), which are above the residential RSL for arsenic of 0.67 mg/kg.

Note that arsenic is a naturally occurring metal that is typically present in soil within background concentration ranges. Based on a report prepared by the U.S. Geological Survey (USGS)⁵, the background concentrations of arsenic in the western United States range from 2.8 to 10.9 mg/kg. In another report prepared specifically for California soils⁶, the background concentrations of arsenic in California soil were found to range from 0.6 to 11.0 mg/kg. In an abstract presented by

⁵ *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States*, by J. G. Boerngen and H. T. Shacklette, USGS Professional Paper No. 1270, 1984.

⁶ *Background Concentrations of Trace and Major Elements in California Soils*, by G. R. Bradford, et al., Kearny Foundation of Soil Science Division of Agriculture and Natural Resources University of California, March 1996.

DTSC staff at the 2008 Society of Toxicology Annual Meeting⁷, it was reported that the upper-bound background concentration for arsenic in southern California soil is 12 mg/kg.

Eight out of the nine soil samples analyzed for arsenic were reported to be within the natural background concentrations for California soils (0.6 to 11.0 mg/kg). One soil sample, SCS10-1, was reported with a concentration of 32.9 mg/kg. SCS also analyzed the next vertically adjacent soil sample at a depth of 3 feet below ground surface (bgs) (SCS10-3), which was reported with an arsenic concentration of 7.81 mg/kg.

Due to the arsenic concentration of 32.9 mg/kg at SCS10-1 that exceeds applicable health risk screening criteria for residential users, it is recommended that this soil be properly excavated, segregated, and managed during construction (i.e., either through on-Site reuse/burial under a clean soil cap, or through export). Potential mitigation measures are further discussed in the “Mitigation” section below.

The adjacent samples to the north (SCS11), east (SCS12), south (SCS9), and west (SCS8) were reported with concentrations below the residential RSLs (Table 2). The extent of the soil that will need to be managed is horizontally defined by the arsenic concentrations of the adjacent soil samples, and vertically defined by the arsenic concentration at 3 feet bgs (SCS10-3) as shown in Figure 3.

Organochlorine Pesticides

OCPs were detected above the laboratory reporting limit in two of the eight samples analyzed. One constituent, dieldrin, was reported with a concentration of 35.0 µg/kg at SCS13-1, which is above the residential RSL for dieldrin (34 µg/kg).

The reported exceedences of dieldrin to the RSL is further discussed in the “Human Health Risk Assessment” section below.

Alpha- and Gamma-chlordane

Alpha- and gamma-chlordane were detected above the laboratory reporting limits in 2 of the 8 samples analyzed for OCPs, with a maximum reported concentration of alpha-chlordane of 25.9 micrograms per kilogram (µg/kg) (SCS13-1) and a maximum concentration of gamma-chlordane of 24.5 µg/kg (SCS14-1). Total chlordane was reported at 254 µg/kg in one soil sample (SCS13-1). There is not an RSL published for alpha- or gamma-chlordane; however, the RSL for total chlordane is 1,700 µg/kg. The reported chlordane concentration is below the RSL for chlordane.

4,4'-DDD

⁷ *Determination of a Southern California Regional Background Arsenic Concentration in Soil, Chernoff, G., Bosan, W., Oudiz, D., and California Department of Toxic Substances Control, 2008 Society of Toxicology Annual Meeting.*

4,4'-DDD was detected above the laboratory reporting limit in 2 of the 8 samples analyzed for OCPs with a maximum reported concentration of 26.2 µg/kg (SCS13-1). No sample concentrations were above the RSL of 1,900 µg/kg.

4,4'-DDE

4,4'-DDE was detected above the laboratory reporting limit in 2 of the 8 samples analyzed for OCPs with a maximum reported concentration of 174 µg/kg (SCS14-1). No sample concentrations were above the RSL of 2,000 µg/kg.

4,4'-DDT

4,4'-DDT was detected above the laboratory reporting limit in one of the 8 samples analyzed for OCPs with a maximum reported concentration of 11.9 µg/kg (SCS14-1). No sample concentrations were above the RSL of 1,900 µg/kg.

The organochlorine pesticides report above the residential RSLs are further discussed in the Human Health Risk Assessment (HHRA) section below.

SOIL VAPOR SAMPLE ANALYTICAL RESULTS

Soil vapor analytical results for samples SV13-5 through SV24-5 (including SV22-5 REP) are presented in Table 5 and Figures 2 and 5 and summarized below.

Benzene

Benzene was reported to be present above the laboratory reporting limit in all of the thirteen soil vapor samples (including SV22-5 REP) at concentrations ranging from 0.02 micrograms per liter (µg/L) (SV15-5, SV16-5, and SV17-3) to 0.08 µg/L (SV21-5). The soil vapor location with the highest reported concentration of benzene (SV21-5) was located within the 1530 E Anaheim Street parcel.

Tetrachloroethene (PCE)

PCE was reported to be present above the laboratory reporting limit in three of the thirteen soil vapor samples at concentrations ranging from 0.02 µg/L (SV14-5) to 0.08 µg/L (SV18-5). The soil vapor location with the highest PCE concentration, SV18-5, was located toward the southeast corner of the historical dry cleaning facility.

Trichloroethene (TCE)

TCE was reported to be present above the laboratory reporting limit in one of the thirteen soil vapor samples (SV18-5) at a concentration of 0.04 µg/L. No other soil vapor samples were reported with a concentration of TCE above the laboratory reporting limit.

m,p-Xylenes

m,p-Xylenes were reported to be present above the laboratory reporting limit in two of the thirteen soil vapor samples at concentrations ranging from 0.16 µg/L (SV22-5) to 0.23 µg/L (SV22-5 REP). The SV22-5 and SV22-5 REP were located adjacent to the filled excavation at the northeastern portion of the Site (Figures 2 and 5).

Concentrations of all other VOCs were reported to be below the laboratory reporting limit for all of the soil vapor samples.

HUMAN HEALTH RISK ASSESSMENT (HHRA)

Soil Sample HHRA

Since the organochlorine pesticide dieldrin was reported in sample SCS13-1 with a concentration of 35 µg/kg, which is nominally above the RSL of 34 µg/kg (SCS13-1 µg/kg for dieldrin), a screening HHRA was conducted of the reported OCP concentrations to assess whether acceptable levels of risk can be achieved suitable for residential development. Since soil sample SCS10-1 was reported with a concentration of 32.9 mg/kg arsenic (and a lead concentration of 90.9 mg/kg), which is significantly above the arsenic RSL of 0.68 mg/kg (and with lead above the CHHSL of 80 mg/kg), sample SCS10-1 was not included in the HHRA. Soil represented by sample SCS10-1 is proposed to be mitigated through excavation and either on-Site reuse under a clean soil cap or through off Site disposal, as discussed in the “Mitigation” section below.

The need to remediate a Site containing potentially hazardous substances is driven by either a potential health risk to the users of a property or to the environment (e.g., beneficial uses of water resources). For this Site, the driver for remediation is assumed to be the potential exposure of the users of the Site (i.e., tenants of the future residential redevelopment) to elevated concentrations of lead and OCPs in the soil. Therefore, the OCP concentrations were evaluated relative to risk-based criteria.

Health risks for the Site were calculated using the California Department of Toxic Substances Control (DTSC) sum of ratios method¹, and assuming residential use. In this approach, cumulative cancer risks for a given site are calculated by summing the ratio of the exposure point concentration (EPC) to the cancer risk-based USEPA Regional Screening Level (RSL) for each carcinogenic chemical in soil. Each ratio is multiplied by 1E-06 and summed to obtain the cumulative cancer risk, as shown below:

$$Cancer\ risk = \sum \left[\frac{EPC}{RSL_{CR}} \times 10^{-6} \right]$$

Where:

EPC = exposure point concentration (µg/kg)

RSL_{CR} = cancer risk-based residential use RSL for soil exposure pathways (µg/kg)

The USEPA residential use soil RSLs were obtained from USEPA (November 2018).

Cumulative non-cancer health risk, expressed as the Hazard Index, was calculated using a similar equation, as follows:

$$\text{Hazard Index} = \sum \left[\frac{\text{EPC}}{\text{RSL}_{\text{NC}}} \times 1 \right]$$

Where:

EPC = exposure point concentration (µg/kg)

RSL_{NC} = non-cancer risk-based residential use RSL for soil exposure pathways (µg/kg)

Note that for each chemical individually, the above ratio is called the Hazard Quotient, which reflects the likelihood of non-cancer health effects for a particular chemical. A Hazard Quotient of 1 or less indicates no significant non-cancer health risks for that particular chemical. The Hazard Quotients are then summed for all chemicals, as shown above, to obtain the Hazard Index. A Hazard Index of 1 or less indicates that the cumulative non-cancer health risks are negligible.

Limited Health Risk Assessment

All of the detected OCPs at the Site are carcinogenic and were included in the calculations for cancer risk and hazard index. For dieldrin, the 95 UCL was used as the EPC.

The 95 UCL was calculated using the latest version of the USEPA statistical program *ProUCL* (Version 5.1.002; updated 5/30/2016). A copy of the ProUCL statistics and input values are located in Appendix C.

Due to the high number of non-detects for OCPs, the maximum detected value was used as the EPC for the remainder of OCPs detected above laboratory reporting limits (gamma-chlordane, alpha-chlordane, DDD, DDE, DDT, endrin aldehyde, and total chlordane), consistent with DTSC risk guidance. The EPCs, cancer risk-based RSLs, cancer risks for each chemical, as well as cumulative cancer risk are shown in the table below.

Constituent	Maximum soil concentration (µg/kg)	95 ProUCL Value	Cancer Risk-Based Soil RSL (µg/kg)	Noncancer Hazard-Based Soil RSL (µg/kg) ¹	Cancer Risk	Hazard Quotient
Dieldrin	35.0	25.05	34	140	7.37E-07	0.179
DDT	25.9	NA	1,900	8,500	1.36E-08	0.00305
DDE	174	NA	2,000	9,300	8.70E-08	0.0187
DDD	26.2	NA	1,900	9,600	1.38E-08	0.00273

Total Chlordane	254	NA	1,700	7,700	1.49E-07	0.0330
Totals					1E-06	2.3E-01

Notes:

EPC = Exposure point concentration. ProUCL 95 upper confidence limit used for dieldrin. Max concentrations used for DDD, DDE, DDT, and total chlordane.

RSL = USEPA residential use Regional Screening Level (November 2018).

NA = Not analyzed.

Bold = Exceedance to either the applicable residential RSL, or an exceedance to the cancer risk threshold of 1E-06.

The cumulative cancer risks related to potential residential soil exposure, the majority of which is related to dieldrin, do not exceed DTSC's negligible cancer risk threshold of 1E-06 (one in a million). In addition, the Hazard Index is below 1, indicating no significant likelihood of adverse non-cancer health risks related to residential soil exposure from OCPs at the Site.

Mitigation

In order to achieve acceptable levels of risk suitable for residential development, the mitigation and revised health risk assessment scenario assumes that soil sample SCS10-1 is representative of soil with elevated levels of lead (i.e. above lead CHHSL levels) and arsenic (i.e. above EPA RSLs) will be removed through excavation and either on-Site reuse under a clean soil cap or off Site disposal.

The proposed Site development plans include a building(s) on the eastern and northern portions of the Site, as well as an on-grade parking structure on the western portion of the Site. Mitigation of the lead- and arsenic-bearing soil that exceeds health risk screening criteria and natural background concentrations represented by sample SCS10-1 (herein referred to as "lead- and arsenic-bearing soil") is recommended prior to or during the proposed development by excavating and properly segregating this material, and ultimately re-using/burying this material on-Site under a clean soil cap (e.g., beneath hardscape and not in utility corridors with at least 3 feet of clean fill over this material, also known as "flipping"), or exporting this material as a regulated waste to an appropriately licensed facility. Based on this mitigation scenario, the cumulative concentrations of arsenic within the delineated area would be within the natural background concentration range of California (maximum of 12 mg/kg) and below the CHHSL for lead of 80 mg/kg, indicating no significant likelihood of adverse non-cancer health risks related to residential soil exposure. This scenario would result in health risks at the Site being acceptable for residential land use and development.

Lead- and arsenic-bearing soil that is recommended to be either re-used or exported from the Site is depicted on Figure 3 (i.e., the area represented by sample SCS10), and is roughly estimated to be approximately 616 cubic yards. This soil is delineated vertically (i.e., with depth) by the presence of a sample below the residential RSL for arsenic as well as the CHHSL for lead collected at 3 feet below grade. Since the sample collected at 3 feet below grade (SCS10-3) was below lead CHHSLs and residential RSLs, the depth of lead- and arsenic-bearing soil that should be excavated and either re-used on-Site or excavated can be conservatively established at 3 feet below grade. This soil is delineated horizontally as half-way between the soil sample driving the mitigation (SCS10-1) and a sample that does not require mitigation; however, additional soil

sampling and analysis is required to further delineate the horizontal extent of lead- and arsenic-bearing soil that exceeds health risk criteria.

Note that there are cost advantages to re-using the lead- and arsenic-bearing soil on-Site; however, there may be disclosure requirements that may be necessary. In addition, there may be engineering controls or land use covenants that may be necessary in order to ensure appropriate disclosure and controls in the future regarding the location and depth of the soil to lenders or future occupants or operators of the Site.

WASTE-BASED CRITERIA

Soil Export Waste Criteria

It has been SCS' experience that in order for soil to be classified as a regulated or hazardous waste, the soil would need first be considered a waste (e.g., to be excavated and transported off-Site). It is SCS' understanding that the Client may or may not intend to export soil during redevelopment activities; therefore, waste criteria will be applicable. Should the Client choose to export soil, additional soil sampling may be necessary to further delineate lead- and arsenic-bearing soil that would be considered a regulated waste, and additional laboratory analysis may be required for waste characterization.

Once it is determined that soil needs to be exported from a Site and that soil contains elevated concentrations of toxic metals (i.e., above natural background concentrations), the representative impacted soil to be exported will then be considered waste. Once deemed waste, it must be characterized. Based on the data collected to date, soil represented by the following soil samples would be considered regulated hazardous waste:

- The area of the Site represented by soil sample SCS10-1 at the Site can be segregated into California hazardous waste, as discussed further below.

Soil not impacted by elevated concentrations of metals or other CoCs besides metals above laboratory reporting limits will be considered suitable for unrestricted off-Site reuse (i.e., inert waste soil).

Based on observations made during the sampling activities, and comparison of laboratory analytical results of soil samples to applicable waste criteria, the following sections discuss assigning Site soils into the applicable waste categories.

Waste Characterization

Hazardous Waste Characterization

Typical hazardous waste soil types include California hazardous waste and federal or RCRA hazardous waste. To assess whether a soil is one of these types of hazardous waste, the total or leachable metals concentrations can be compared to the applicable criteria.

For typical dry samples, the total concentration of a CoC in soil is compared with the Total Threshold Limit Concentration (TTLC) for that CoC. If the concentration exceeds the TTLC, the soil would be characterized as California hazardous waste.

Additionally, to address potential leaching of CoC bearing waste intended for landfill disposal, CoC concentrations are compared to the Soluble Threshold Limit Concentration (STLC). If the total CoC concentration (i.e., total lead concentration) in soil exceeds the STLC by 10 times, the waste extraction test (WET) is performed to create a liquid extract that is analyzed for the CoC. If the concentration of the CoC from the WET exceeds the respective STLC, the soil may be characterized as California hazardous waste.

For federal regulations, if the total concentration of a CoC in the soil equals or exceeds the Maximum Concentration of Contaminants for the Toxicity Characteristic (MCCTC) value by 20 times, a liquid extract of the soil sample is generated by the Toxicity Characteristic Leaching Procedure (TCLP) and the extract is then analyzed for the CoC. The MCCTC/TCLP determination is similar to the STLC/WET, but with a factor of 20. If the result of the analysis of the TCLP extract exceeds the MCCTC, then the soil may be characterized as RCRA hazardous waste.

A discussion of soil samples that exceed the STLC and/or MCCTC is presented in the “Waste Characterization: Lead and Other Metals” section below.

Waste Characterization: Lead and Other Metals

Lead was reported to range from a minimum of 3.07 mg/kg to a maximum of 90.9 mg/kg (SCS10-1), with a second maximum of 66.4 mg/kg (SCS12-1).

Since elevated concentrations of lead were reported in soil samples SCS10-1 (90.9 mg/kg), SCS12-1 (66.4 mg/kg), and SCS14-1 (59.1 mg/kg) that exceed waste export criteria (i.e., 50 mg/kg used to characterize California hazardous waste and 100 mg/kg used to characterize federal or RCRA hazardous waste), and it is not known at this time whether this soil will be excavated and exported from the Site, these samples were additionally analyzed for lead leachability.

Samples SCS10-1, SCS12-1, and SCS14-1 were additionally analyzed by the Waste Extraction Test (WET) for lead, since the total lead results of these samples exceeded 10 times the STLC (50 mg/kg) screening value. Of these samples analyzed for lead using the WET method, none of the three samples exceeded the STLC value of 5 milligrams per liter (mg/L) used to determine whether a material may be classified as California hazardous waste if this material is exported from the Site. Therefore, none of the soil samples analyzed at the Site indicate that this material would be considered a California hazardous waste if exported from the Site.

Although the soil samples collected and analyzed for this Subsurface Assessment are not considered California hazardous waste, due to the presence of several CoCs above detection limits, including OCPs as well as PCE and TCE, soil represented by these samples would likely be considered a non-hazardous regulated waste if exported from the Site, and should be disposed

of at a properly licensed facility. Additional soil sampling of soil proposed for export may be required to confirm whether soil to be exported from the Site contains CoCs.

Soil Vapor Sample HHRA - On-Site Evaluation of VOCs to Indoor Air Using Regional Screening Levels (RSLs)

Because benzene, trichloroethene (TCE), and tetrachloroethene (PCE) were reported above the laboratory reporting limits in six of the nine soil vapor samples that were collected at the Site and analyzed for VOCs, SCS compared the maximum reported concentration of benzene and tetrachloroethene at the Site to the DTSC Human and Ecological Risk Office (HERO) Note 3 dated June 2018, and compared the maximum reported concentration of trichloroethene at the Site to the Regional Screening Level (RSL) dated November 2018. Since the soil vapor sample was collected at a depth of 5 feet below grade, SCS applied the DTSC Attenuation Factor^[1] of 0.001 for future residential building slabs to convert the maximum Site concentration of benzene to a theoretical indoor air concentration. The maximum reported concentration of benzene at the Site is presented in the table below, along with the HERO Note 3 and EPA RSL values.

VOCs	Concentration (µg/m³)	Concentration after applying Attenuation Factor (0.001) (µg/m³)	HERO Note 3 (benzene and PCE) values and Regional Screening Level (RSL) (TCE) (µg/m³)
Benzene	80	0.080	0.36
Trichloroethene (TCE)	40	0.040	2
Tetrachloroethene (PCE)	80	0.080	0.46

Based on the reported concentrations of benzene, TCE, and PCE at the Site after applying the DTSC Attenuation Factor, the concentrations of benzene, TCE, and PCE at the Site are below the respective HERO Note 3 and Regional Screening Level values. Therefore, no further action related to vapor intrusion regarding the reported benzene, PCE, and TCE concentrations at the Site is recommended.

5 CONCLUSIONS AND RECOMMENDATIONS

Based on the data obtained and reviewed as part of this Subsurface Assessment, laboratory results, and current regulatory guidelines, and SCS's experience and professional judgment, SCS concludes and recommends the following:

- In order to assess for potential releases at the Site as a result of the presence of the former USTs, the on-Site dry cleaners, lead-based paint, pesticides, termiticides, and the historical auto repair facility, SCS performed a Subsurface Assessment consisting of a geophysical survey focusing on the western portion (at the location of the former dry cleaners) and the central north portion (the location of the former auto repair facility) of the Site, advanced soil borings within the interpreted UST area, and advanced soil vapor

^[1] Department of Toxic Substances Control (DTSC), State of California Vapor Intrusion Guidance Document - Final, dated October 2011.

probes to assess for concentrations of petroleum hydrocarbons, volatile organic compounds, lead, Title 22 Metals, and organochlorine pesticides (OCPs) within the Site boundaries. Eight soil borings were advanced to assess for the possible presence of constituents of concern (CoCs) (i.e., total petroleum hydrocarbons [TPH], volatile organic compounds [VOCs], OCPs, Title 22 Metals, and lead) associated with the potential uses of gasoline, diesel, and/or waste oil, lead-based paints, and OCPs. In addition, twelve soil vapor probes were advanced to assess potential releases from features of potential concern [FOPC] as listed above.

- The geophysical survey was conducted throughout the Site with an emphasis on the western and north central portions of the Site in order to assess for possible current USTs and/or backfilled excavations associated with UST removal in connection with the former auto repair station and dry cleaners at the Site. The results of the geophysical survey did not reveal the obvious presence of USTs and other features of potential concern. However, one possible backfilled excavation, three possible candidate electromagnetic (EM) anomalies, and several relatively small anomalies along with underground lines were discovered in the study area. Soil and soil vapor probes were adjusted accordingly to assess several of these geophysical anomalies.
- The results of the lead analysis of the soil samples indicate that detectable concentrations of lead are present in all shallow soil samples analyzed, with a maximum concentration of 90.9 milligrams per kilogram (mg/kg). One of the reported concentrations for lead (90.9 mg/kg) at the SCS10 location at a depth of 1 foot below ground surface (bgs) exceeded the residential California Human Health Screening Level⁸ (CHHSL) of 80 mg/kg for lead.
- Three soil samples were analyzed for Title 22 Metals, and six soil samples were additionally analyzed for only arsenic. With the exception of arsenic, the metals analyzed within the samples were reported below the respective Regional Screening Levels.
- The highest concentration of arsenic (32.9 mg/kg) and highest concentration of lead (90.9 mg/kg) (SCS10-1) were reported in one samples (SCS10-1) above the residential Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for arsenic (0.68 mg/kg) and CHHSL (80 mg/kg) for lead. The remaining eight of the nine soil samples analyzed for arsenic were within range of the natural background concentrations of California (0.6 mg/kg to 11 mg/kg), and are not considered indicative of a release of arsenic at the Site.
- To address the potential leaching of CoC bearing waste intended for landfill disposal, the three highest lead concentrations reported on Site were analyzed for lead leachability using the Waste Extraction Test (WET) and compared to the Soluble Threshold Limit Concentration (STLC). None of the three soil samples analyzed using the WET test were

8 Office of Environmental Health Hazard Assessment, California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties, dated September 2010.

reported above the 5 mg/L STLC threshold for lead. As a result, the lead-bearing soil can likely be considered a non-hazardous waste if excavated and exported off Site.

- Although the soil samples collected and analyzed for this Subsurface Assessment are not considered California hazardous waste, due to the presence of several CoCs above detection limits, including OCPs as well as PCE and TCE, soil represented by these samples would likely be considered a non-hazardous regulated waste if exported from the Site, and should be disposed of at a properly licensed facility. Additional soil sampling of soil proposed for export may be required to confirm whether soil to be exported from the Site contains CoCs.
- Mitigation of lead- and arsenic-bearing soil that exceeds natural background concentrations and health risk screening criteria represented by sample SCS10-1 is recommended prior to or during the proposed development by excavating and properly segregating this material, and ultimately re-using/burying this material on-Site under a clean soil cap of 3 feet, or exporting this material as a regulated waste to an appropriately licensed facility.
- If the Client elects to bury or reuse the lead- and arsenic-bearing soil, SCS recommends that the Client consider “flipping” these soils by excavating this material, securely storing this material on-Site during redevelopment activities, and ultimately burying this material under 3 feet of clean fill in locations such as proposed hardscape areas (i.e., concrete or asphalt), proposed manufactured slope(s) or as wall backfill, or placed on-Site in a manner to eliminate potential complete exposure pathways for future residential occupants. The approximate area that is recommended to be either re-used or exported from the Site is roughly estimated to be 616 cubic yards (924 tons). Additional soil sampling and analysis is required to further delineate the horizontal extent of lead- and arsenic-bearing soil that exceeds health risk criteria.
- All of the ten soil samples analyzed for total petroleum hydrocarbons in the gasoline, diesel, and oil ranges (TPHg, TPHd, and TPHo, respectively) were reported to be below the laboratory reporting limits for each constituent.
- The results of the soil vapor survey indicated that of the thirteen soil vapor samples collected (including the replicate at SV22-5), all thirteen samples were reported with concentrations of VOCs above the laboratory reporting limit for benzene ranging from 0.02 µg/L to 0.08 µg/L, three samples were reported with concentrations of tetrachloroethene (PCE) ranging from 0.02 µg/L to 0.08 µg/L, one sample was reported with a concentration of trichloroethene (TCE) (0.04 µg/L), and two samples were reported with concentrations of m,p-xylenes (0.16 µg/L to 0.23 µg/L). No other VOCs were reported above laboratory reporting limits in any of the samples collected and analyzed for this assessment.
- Because TCE, PCE, and benzene were reported above the laboratory reporting limits in several of the soil vapor samples collected at the Site, the constituent concentrations were compared to their respective Department of Toxic Substances Control (DTSC) Health and Ecological Risk Office (HERO) Note 3 values dated August 23, 2014 and DTSC

Regional Screening Levels (RSL) dated November 2018. The highest concentration of each constituent was calculated with the attenuation factor value related to future residential use (0.001) based on the DTSC Final Vapor Intrusion Guide dated October 2011. The final vapor intrusion concentrations with respect to the attenuation factors were reported to be below the RSLs and HERO values implemented by the DTSC and California Environmental Protection Agency (EPA). Therefore, no further action related to vapor intrusion regarding the reported VOC concentrations at the Site is recommended.

- Certain constraints and limiting conditions impacted our ability to conduct the Subsurface Assessment and the related conclusions. The above-referenced conclusions are conditioned by the data gaps and limitations presented above.

6 REPORT USAGE AND FUTURE SITE CONDITIONS

This Report is intended for the sole usage of the Client and other parties designated by SCS. The methodology used during this Assessment was in general conformance with the requirements of the Client and the specifications and limitations presented in the Consulting Agreement (Contract) between the Client and SCS. This Report contains information from a variety of public and other sources, and SCS makes no representation or warranty about the accuracy, reliability, suitability, or completeness of the information. Any use of this Report, whether by the Client or by a third party, shall be subject to the provisions of the Contract between the Client and SCS. Any misuse of or reliance upon the Report shall be without risk or liability to SCS.

Assessments are qualitative, not comprehensive, in nature and may not identify all environmental problems or eliminate all risk. For every property, but especially for properties in older downtown or urban areas, it is possible for there to be unknown, unreported recognized environmental conditions, USTs, or other features of concern that might become apparent through demolition, construction, or excavation activities, etc. In addition, the scope of services for this project was limited to those items specifically named in the scope of services for this Report. Environmental issues not specifically addressed in the scope of services for this project are not included in this Report.

Land use, condition of the properties within the Site, and other factors may change over time. The information and conclusions of this Report are judged to have been relevant at the time the work described in this Report was conducted. This Report should not be relied upon to represent future Site conditions unless a qualified consultant familiar with the practice of Phase II Environmental Site Assessments in the County of Los Angeles is consulted to assess the necessity of updating this Report.

The property owners at the Site are solely responsible for notifying all governmental agencies and the public of the existence, release, or disposal of any hazardous materials/wastes or petroleum products at the Site, whether before, during, or after the performance of SCS' services. SCS assumes no responsibility or liability for any claim, loss of property value, damage, or injury that results from hazardous materials/wastes or petroleum products being present or encountered within the Site.

Although this Assessment has attempted to assess the likelihood that the Site has been impacted by a hazardous material/waste release, potential sources of impact may have escaped detection for reasons that include, but are not limited to, (1) inadequate or inaccurate information rightfully provided to SCS by third parties, such as public agencies and other outside sources; (2) the limited scope of this Assessment; and (3) the presence of undetected, unknown, or unreported environmental releases.

7 LIKELIHOOD STATEMENTS

Statements of “likelihood” have been made in this report. Likelihood statements are based on professional judgments of SCS. The term “likelihood,” as used herein, pertains to the probability of a match between the prediction for an event and its actual occurrence. The likelihood statement assigns a measure for a “degree of belief” for the match between the prediction for the event and the actual occurrence of the event.

The likelihood statements in this Report are made qualitatively (expressed in words). The qualitative terms can be approximately related to quantitative percentages. The term “low likelihood” is used by SCS to approximate a range of 10 to 20 percent; the term “moderate likelihood” refers to an approximate range of 40 to 60 percent; and the term “high likelihood” refers to an approximate range of 80 to 90 percent

8 SPECIAL CONTRACTUAL CONDITIONS BETWEEN USER AND ENVIRONMENTAL PROFESSIONAL

There were no special contractual conditions between the user of this Assessment, the environmental professional, and SCS.

-
- i DTSC. 2011. Human Health Risk Assessment (HHRA) Note. HERO HHRA Note Number: 4. Issue Date: June 9, 2011. Issue: Screening Level Human Health Risk Assessments. Sacramento.

TABLES

Table 1

Soil Analytical Data for Lead and Soluble Threshold Limit Concentrations

1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813

Sample	Depth	Date	Lead (mg/kg)	STLC	> 10x STLC (50 mg/kg)	> 20x MCCTC (100 mg/kg)
SCS8-1	1	2/20/2019	3.80	--	No	No
SCS9-1	1	2/20/2019	6.39	--	No	No
SCS10-1	1	2/20/2019	90.9	4.65	Yes	No
SCS10-3	3	2/20/2019	9.87	--	No	No
SCS11-1	1	2/20/2019	5.40	--	No	No
SCS12-1	1	2/20/2019	66.4	1.60	Yes	No
SCS13-1	1	2/20/2019	15.2	--	No	No
SCS14-1	1	2/20/2019	59.1	< 0.500	Yes	No
SCS15-1	1	2/20/2019	8.70	--	No	No

Notes :

Soil samples collected by SCS Engineers on February 20, 2019 and analyzed for total lead in general accordance with EPA Method 6010B, and analyzed for Soluble Threshold Limit Concentration (STLC) in general accordance with EPA Method STLC

mg/kg= milligram per kilogram

< : results less than the indicated laboratory reporting limit

TTLC: Toxicity Threshold Limit Concentration

10xSTLC: Ten times the STLC value

MCTCC: Maximum Concentration of Contaminants for the Toxicity Characteristic

20xMCTCC: Twenty times the MCTCC

Table 2
Soil Analytical Data for Title 22 Metals
1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813

Sample	Depth	Lead	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Mercury	Molybdenum	Nickel	Vanadium	Zinc	Other Metals
		(mg/kg)												
Soil Samples collected by SCS Engineers on November 7, 2006														
SB6-5	5	4.8	1.4	89	< 1.0	23	11	19	< 0.10	< 1.0	17	43	43	ND
SB7-1	1	7.0	< 1.0	70	< 1.0	13	6.3	9.7	< 0.10	< 1.0	8.0	25	33	ND
Soil samples collected by SCS Engineers on February 20, 2019														
SCS8-1	1	3.80	4.67	--	--	--	--	--	--	--	--	--	--	--
SCS9-1	1	6.39	7.41	--	--	--	--	--	--	--	--	--	--	--
SCS10-1	1	90.9	32.9	144	1.95	19.4	7.86	29.3	0.0699	0.568	12.2	32.4	642	ND
SCS10-3	3	9.87	7.81	--	--	--	--	--	--	--	--	--	--	--
SCS11-1	1	5.40	3.07	--	--	--	--	--	--	--	--	--	--	--
SCS12-1	1	66.4	4.41	132	1.34	20.6	9.34	23.2	< 0.0500	< 0.500	14.2	37.6	137	Antimony (1.23)
SCS13-1	1	15.2	4.94	--	--	--	--	--	--	--	--	--	--	--
SCS14-1	1	59.1	5.27	103	1.31	18.8	7.87	20.3	< 0.0500	< 0.500	12.6	33.7	140	Antimony (0.676)
SCS15-1	1	8.70	--	--	--	--	--	--	--	--	--	--	--	--
EPA RSLs		80*	0.68	16,000	71	120,000	23	3,100	11	390	1,500	390	23,000	

Notes:

Soil samples collected by SCS Engineers on November 7, 2006 and February 20, 2019, and analyzed for lead in general accordance with EPA Method 6010B. Selected soil samples additionally analyzed for Title 22 Metals in general accordance with EPA Methods 6010B.

Results reported in milligrams per kilogram (mg/kg).

< : results less than the indicated laboratory reporting limit

Bold indicates concentrations above the laboratory detection limit

-- indicates sample was not analyzed for the constituent

EPA RSLs = Environmental Protection Agency Regional Screening Levels for residential use, as presented in *Regional Screening Levels [RSLs] for Chemical Contaminants at Superfund Sites*, United States EPA, updated November 2018.

* = for lead, the California Human Health Screening Level (CHSSL), as presented in the Office of Environmental Health Hazard Assessment, California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties, dated September 2010, was used in lieu of an RSL.

Table 3
Soil Analytical Data for Total Petroleum Hydrocarbons
1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813

Sample	Depth	TPHg (mg/kg)	TPHd (mg/kg)	TPHo (mg/kg)
Soil Samples collected by SCS Engineers on November 7, 2006				
SB1-5	5	< 1.0	< 10	< 10
SB1-20	20	< 1.0	< 10	< 10
SB2-5	5	< 1.0	< 10	< 10
SB2-10	10	< 1.0	< 10	< 10
SB2-15	15	< 1.0	< 10	< 10
SB2-20	20	< 1.0	< 10	< 10
SB3-10	10	< 1.0	< 10	< 10
SB3-20	20	< 1.0	< 10	< 10
SB4-5	5	< 1.0	< 10	< 10
SB4-20	20	< 1.0	< 10	< 10
SB5-10	10	< 1.0	< 10	< 10
SB5-20	20	< 1.0	< 10	< 10
SB6-1	1	< 1.0	< 10	< 10
SB6-5	5	< 1.0	< 10	< 10
SB7-1	1	< 1.0	< 10	< 10
SB7-5	5	< 1.0	< 10	< 10
Soil Samples collected by SCS Engineers on February 20, 2019				
SCS8-1	1	< 0.500	< 10.0	< 50.0
SCS8-3	3	< 0.500	< 10.0	< 50.0
SCS9-1	1	< 0.500	< 10.0	< 50.0
SCS9-3	3	< 0.500	< 10.0	< 50.0
SCS10-1	1	< 0.500	< 10.0	< 50.0
SCS10-3	3	< 0.500	< 10.0	< 50.0
SCS11-1	1	< 0.500	< 10.0	< 50.0
SCS11-3	3	< 0.500	< 10.0	< 50.0
SCS12-1	1	< 0.500	< 10.0	< 50.0

Notes :

Soil vapor samples collected by SCS Engineers on November 7, 2006 and February 20, 2019 and analyzed for total petroleum hydrocarbons as gasoline (TPHg), as diesel (TPHd), and as oil (TPHo) in general accordance with EPA Method 8015B, TPHg, TPHd and TPHo results provided in milligrams per kilogram (mg/kg).

< : result less than the indicated laboratory reporting limit

Bold font indicates sample above the laboratory reporting limit

Please refer to the laboratory analytical report for a full listing of analytes and corresponding laboratory reporting limits.

Table 4
Soil Analytical Data for Volatile Organic Compounds
1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813

Sample	Depth	Benzene	Toluene	Ethylbenzene	Other VOCs
		µg/kg			
Soil samples collected by SCS Engineers November 7, 2006					
SB1-5	5	< 5.0	< 5.0	< 5.0	ND
SB1-20	20	< 5.0	< 5.0	< 5.0	ND
SB2-5	5	< 5.0	< 5.0	< 5.0	ND
SB2-10	10	< 5.0	< 5.0	< 5.0	ND
SB2-15	15	< 5.0	< 5.0	< 5.0	ND
SB2-20	20	< 5.0	< 5.0	< 5.0	ND
SB3-10	10	< 5.0	< 5.0	< 5.0	ND
SB3-20	20	< 5.0	< 5.0	< 5.0	ND
SB4-5	5	< 5.0	< 5.0	< 5.0	ND
SB4-20	20	< 5.0	< 5.0	< 5.0	ND
SB5-10	10	< 5.0	< 5.0	< 5.0	ND
SB5-20	20	< 5.0	< 5.0	< 5.0	ND
SB6-1	1	< 5.0	< 5.0	< 5.0	Tetrachloroethene (89) Trichloroethene (10)
SB6-5	5	< 5.0	< 5.0	< 5.0	ND
SB7-5	5	< 5.0	< 5.0	< 5.0	ND
Soil samples collected by SCS Engineers February 20, 2019					
SCS8-1	1	< 2.00	< 2.00	< 2.00	ND
SCS8-3	3	< 2.00	< 2.00	< 2.00	ND
SCS9-1	1	< 2.00	< 2.00	< 2.00	ND
SCS9-3	3	< 2.00	< 2.00	< 2.00	ND
SCS10-1	1	< 2.00	< 2.00	< 2.00	ND
SCS10-3	3	< 2.00	< 2.00	< 2.00	ND
SCS11-1	1	< 2.00	< 2.00	< 2.00	ND
SCS12-1	1	< 2.00	< 2.00	< 2.00	ND
SCS12-3	3	< 2.00	< 2.00	< 2.00	ND

Notes :

Soil samples collected by SCS Engineers on November 7, 2006 and February 20, 2019, and analyzed for volatile organic compounds (VOCs) in general accordance with EPA Method 8260B

VOC results provided in micrograms per kilogram (µg/kg) ;

< : result less than the indicated laboratory reporting limit

Bold font indicates sample above the laboratory reporting limit

ND = group of constituents not reported above each respective laboratory limit.

Please refer to the laboratory analytical report for a full listing of analytes and corresponding laboratory reporting limits.

Table 5
Soil Analytical Data for Organochlorine Pesticides
1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813

Sample	Depth	gamma-Chlordane	alpha-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endrin aldehyde	Total Chlordane	Other OCPs
		µg/kg								
Soil samples collected by SCS Engineers November 7, 2006										
SCS8-1	1	< 2.00	< 2.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 100	ND
SCS9-1	1	< 2.00	< 2.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 100	ND
SCS10-1	1	< 2.00	< 2.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 100	ND
SCS11-1	1	< 2.00	< 2.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 100	ND
SCS12-1	1	< 2.00	< 2.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 100	ND
SCS13-1	1	34.0	25.9	17.2	6.01	< 4.00	35.0	4.56	254	ND
SCS14-1	1	5.12	15.1	26.2	174	11.9	7.60	< 4.00	< 100	ND
SCS15-1	1	< 2.00	< 2.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 100	ND
EPA RSLs		NA	NA	1,900	2,000	1,900	34.0	NA	1,700	

Notes

Soil samples collected by SCS Engineers on February 20, 2019 and analyzed for organochlorine pesticides (OCPs) in general accordance with EPA Method 8081B

OCPs in units of micrograms per kilogram (µg/kg)

< : result less than the indicated laboratory reporting limit

Bold font indicates sample above the laboratory reporting limit

ND = group of constituents not reported above each respective laboratory limit. Please refer to the laboratory analytical report for a full listing of analytes and corresponding laboratory reporting limits.

EPA RSLs = Environmental Protection Agency Regional Screening Levels for residential use, as presented in

Regional Screening Levels [RSLs] for Chemical Contaminants at Superfund Sites, United States EPA, updated November 2018.

NA = not applicable

Table 6
Soil Vapor Sample Analytical Results
1500 to 1546 E Anaheim Street, and 1205 to 1209 Walnut Avenue
Long Beach, California 90813

Sample	Depth	PCE	TCE	Benzene	Toluene	m,p-Xylenes	o-Xylenes	Other VOCs	Oxygen
		µg/L							
Soil Vapor Samples collected by SCS Engineers on October 7, 2006									
SV1-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV2-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV2-5Dup	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV3-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV4-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV5-5	5	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	ND	--
SV6-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV7-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV8-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV9-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV10-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV11-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
SV12-5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	--
Soil Vapor Samples collected by SCS Engineers on February 20, 2019									
SV13-5	5	< 0.02	< 0.02	0.06	< 0.20	< 0.10	< 0.10	ND	--
SV14-5	5	0.02	< 0.02	0.03	< 0.20	< 0.10	< 0.10	ND	7.8
SV15-5	5	0.04	< 0.02	0.02	< 0.20	< 0.10	< 0.10	ND	--
SV16-5	5	< 0.02	< 0.02	0.02	< 0.20	< 0.10	< 0.10	ND	--
SV17-3	3	< 0.02	< 0.02	0.02	< 0.20	< 0.10	< 0.10	ND	--
SV18-5	5	0.08	0.04	0.05	< 0.20	< 0.10	< 0.10	ND	--
SV19-3	3	< 0.02	< 0.02	0.05	< 0.20	< 0.10	< 0.10	ND	--
SV20-3	3	< 0.02	< 0.02	0.04	< 0.20	< 0.10	< 0.10	ND	--
SV21-5	5	< 0.02	< 0.02	0.08	< 0.20	< 0.10	< 0.10	ND	15
SV22-5	5	< 0.02	< 0.02	0.03	< 0.20	0.16	< 0.10	ND	--
SV22-5 REP	5	< 0.02	< 0.02	0.03	< 0.20	0.23	< 0.10	ND	--
SV23-5	5	< 0.02	< 0.02	0.04	< 0.20	< 0.10	< 0.10	ND	--
SV24-5	5	< 0.02	< 0.02	0.03	< 0.20	< 0.10	< 0.10	ND	--

Notes :

Soil vapor samples were collected by SCS Engineers on October 7, 2006 and February 20, 2019 and analyzed for

volatile organic compounds in general accordance with EPA Method M8015D (October 7, 2006) and EPA Method 8260SV (February 20, 2019)

Soil vapor samples SV14-5 and SV21-5 were collected by SCS Engineers on February 20, 2019 and analyzed for oxygen as a percent

in general accordance with EPA Method ASTM D1945

Results provided in micrograms per liter (µg/L).

< : results less than the indicated laboratory reporting limit

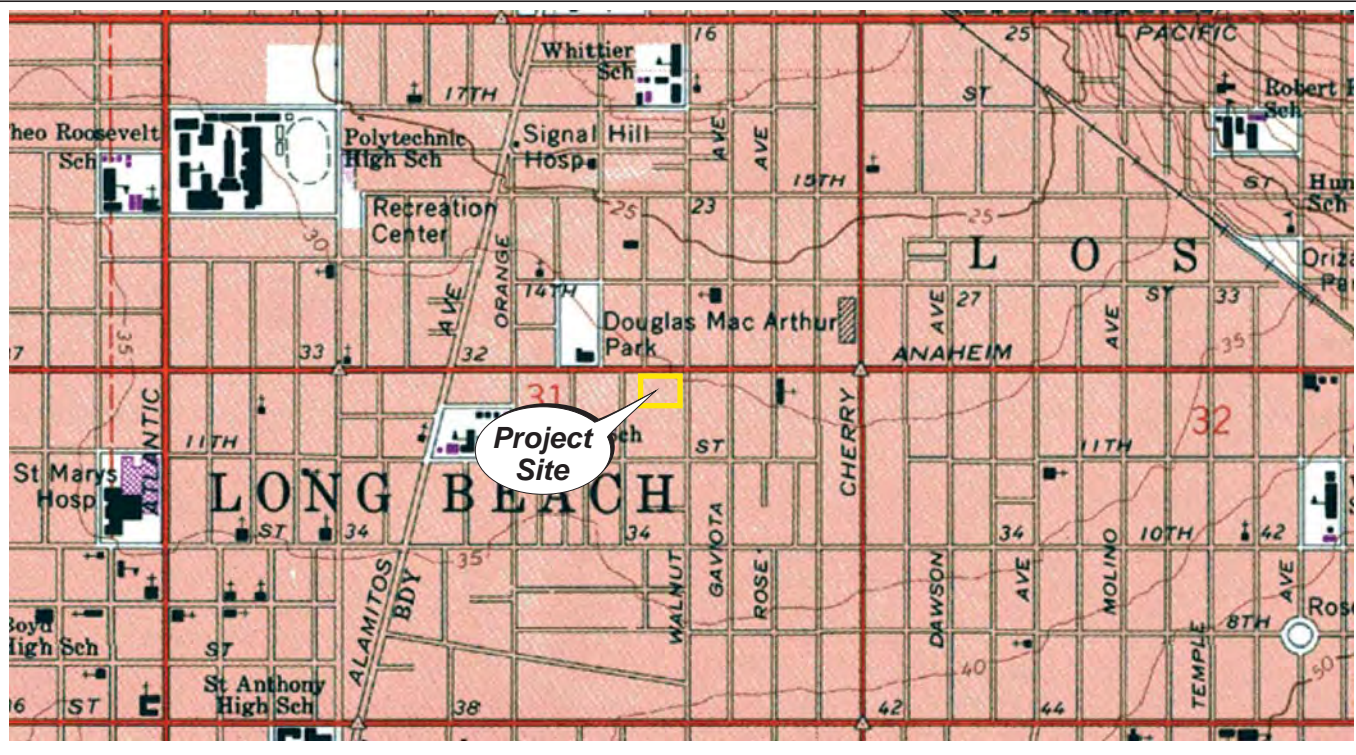
PCE = Tetrachloroethene

TCE= Trichloroethene

Bold font indicates sample above the laboratory reporting limit.

ND = group of constituents not reported above each respective laboratory limit. Please refer to the laboratory analytical report for a full listing of analytes and corresponding laboratory reporting limits.

FIGURES



Reference:
U.S.G.S. 7.5 Minute Quadrangle Map
Long Beach, California

2-DIMENSIONAL SITE LOCATION



Reference:
U.S.G.S. 7.5 Minute Quadrangle Map
Long Beach, California

3-DIMENSIONAL SITE LOCATION



Reference:
Google Earth Aerial Photograph
Long Beach, California - June 2016

SITE AERIAL PHOTOGRAPH

SCS ENGINEERS

Environmental Consultants
8799 Balboa Avenue, Suite 290
San Diego, California 92123

THREE-WAY SITE LOCATION MAP

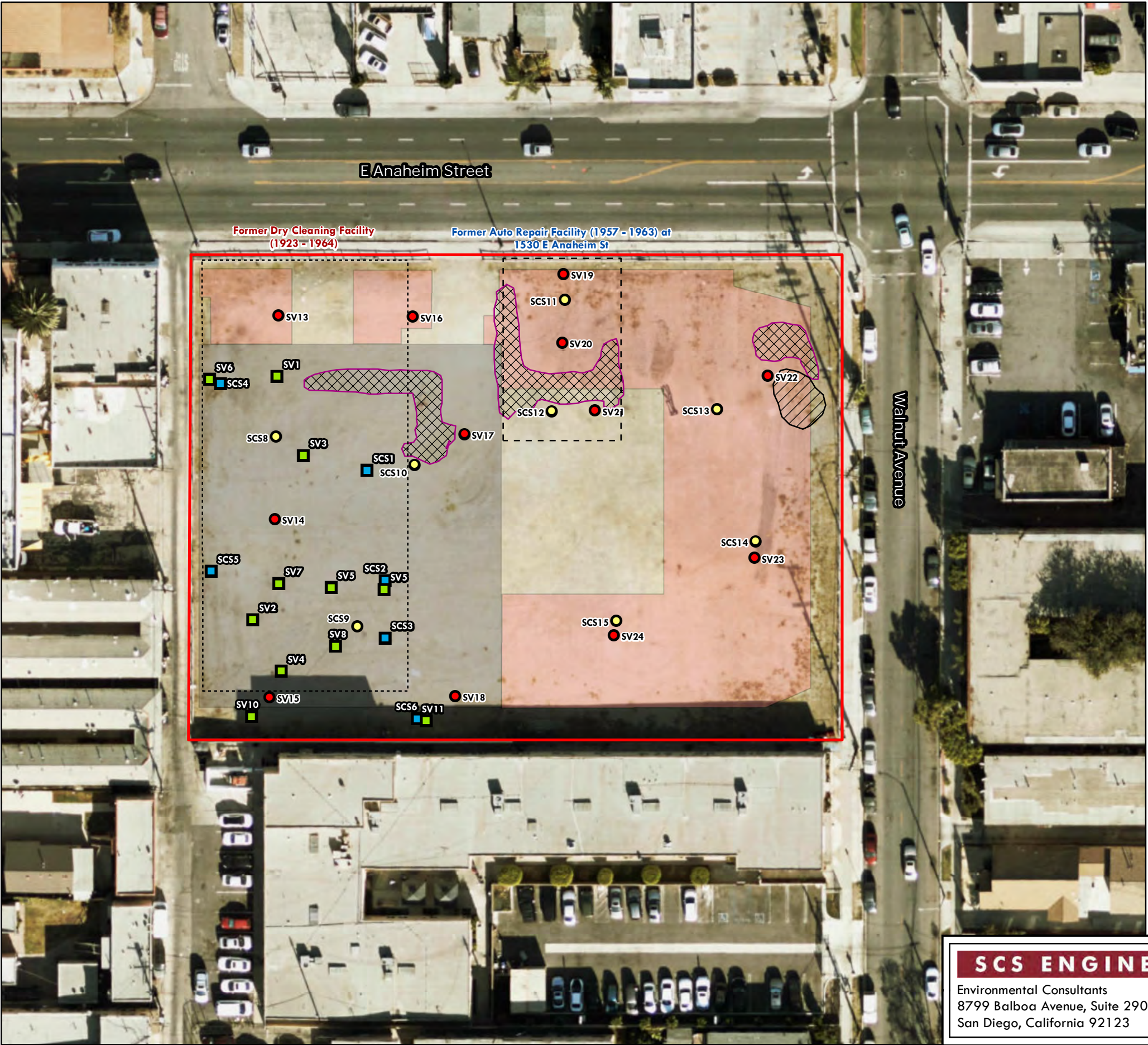
Bridge Housing Corporation
1500 to 1546 East Anaheim Street and
1205 to 1209 Walnut Avenue
Long Beach, California

Project No.:
01211126.01

Figure 1

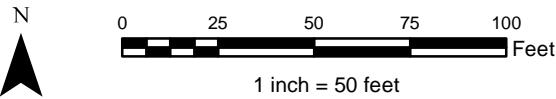
Date Drafted:
1/22/19

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.



LEGEND

- Soil vapor sample locations collected by SCS Engineers on February 20, 2019
- Soil boring sample locations collected by SCS Engineers on February 20, 2019
- Historical soil vapor sample locations collected by SCS Engineers on October 7, 2006
- Historical soil boring sample locations collected by SCS Engineers on October 7, 2006
- Site Boundary
- ▨ Possible Excavation identified by Southwest Geophysics on February 14, 2019
- ▩ Significant Electromagnetic Anomalies identified by Southwest Geophysics on February 14, 2019 (several other smaller electromagnetic anomalies were identified in the Southwest Geophysics report, however they were not reported to be significant)
- Proposed Building Footprint
- Proposed Parking Structure



SCS ENGINEERS Environmental Consultants 8799 Balboa Avenue, Suite 290 San Diego, California 92123	Soil and Soil Vapor Boring Locations BRIDGE Housing Corporation 1500 to 1546 East Anaheim Street and 1205 to 1209 Walnut Avenue Long Beach, California	Project No.: 01211126.01
		Figure 2
		Date Drafted: 3/20/2019

This figure is based on available data. Actual conditions may differ.
All locations and dimensions are approximate

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN,



LEGEND

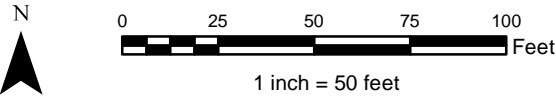
- Soil vapor sample locations collected by SCS Engineers on February 20, 2019
- Soil boring sample locations collected by SCS Engineers on February 20, 2019

Sample	Depth	Pb	Sb	As	Ba	Cd	Cr	Co	Cu	Hg	Mo	Mi	V	Zn	Other Metals
SCS12-1	1	66.4	1.23	4.41	132	1.34	20.6	9.34	23.2	<0.0500	<0.500	14.2	37.6	137	ND

Soil samples, with depth in feet below grade, analyzed for Title 22 Metals in general accordance with EPA Method 6010B. Bold font indicates sample results above the laboratory reporting limit. Depth is in feet. Concentrations reported in milligrams per kilogram (mg/kg). < indicates results less than the laboratory reporting limit; number indicates individual analyte reporting limit. ND indicates concentration not detected above laboratory reporting limits. NA indicates the constituent was not analyzed.

Pb: Lead
Sb: Antimony
As: Arsenic
Ba: Barium
Cd: Cadmium
Cr: Chromium
Co: Cobalt
Cu: Copper
Hg: Mercury
Mo: Molybdenum
Ni: Nickel
V: Vanadium
Zn: Zinc

- Hypothetical limits of lead- and arsenic-bearing soil to a depth of approximately 3 feet below grade
- Site Boundary
- Possible Excavation identified by Southwest Geophysics on February 14, 2019
- Significant Electromagnetic Anomalies identified by Southwest Geophysics on February 14, 2019 (several other smaller electromagnetic anomalies were identified in the Southwest Geophysics report, however they were not reported to be significant)



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Soil Analytical Results - Title 22 Metals

BRIDGE Housing Corporation
1500 to 1546 East Anaheim Street and
1205 to 1209 Walnut Avenue
Long Beach, California

Project No.: 01211126.01

Figure 3

Date Drafted: 3/15/2019

This figure is based on available data. Actual conditions may differ.
All locations and dimensions are approximate

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN,



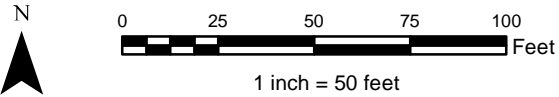
LEGEND

- Soil vapor sample locations collected by SCS Engineers on February 20, 2019
- Soil boring sample locations collected by SCS Engineers on February 20, 2019

Sample	Depth	PCE	TCE	Benzene	Toluene	m,p-Xylenes	o-Xylenes	Other VOCs
SV20-3	3	<0.02	<0.02	0.04	<0.20	<0.10	<0.10	ND

Soil vapor samples, with depth in feet below grade, collected by SCS Engineers on February 20, 2019, and analyzed for volatile organic compounds (VOCs) in general accordance with EPA Method 8260SV. Results for VOCs are reported in micrograms per liter (µg/L). Bold font indicates sample results above the laboratory reporting limit.
TCE: Trichloroethene
PCE: Tetrachloroethene
ND indicates concentration not detected above the laboratory reporting limit

- Site Boundary
- Possible Excavation identified by Southwest Geophysics on February 14, 2019
- Significant Electromagnetic Anomalies identified by Southwest Geophysics on February 14, 2019 (several other smaller electromagnetic anomalies were identified in the Southwest Geophysics report, however they were not reported to be significant)
- Proposed Building Footprint
- Parking Structure



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Soil Vapor Analytical Results
BRIDGE Housing Corporation
1500 to 1546 East Anaheim Street and
1205 to 1209 Walnut Avenue
Long Beach, California

Project No.: 01211126.01
Figure 5
Date Drafted: 3/20/2019

APPENDICES

**GEOPHYSICAL EVALUATION
1500-1546 ANAHEIM STREET
LONG BEACH, CALIFORNIA**

PREPARED FOR:

SCS Engineers, Inc.
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

PREPARED BY:

Southwest Geophysics, LLC.
6280 Riverdale Street, Suite 200
San Diego, CA 92120

February 28, 2019
Project No. 119063

February 28, 2019
Project No. 119063

Mr. Luke Montague, MESM, PG
SCS Engineers, Inc.
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Subject: Geophysical Evaluation
1500-1546 Anaheim Street
Long Beach, California

Dear Mr. Montague:

In accordance with your authorization, we have performed a limited geophysical evaluation for the property located at 1500-1546 Anaheim Street in Long Beach, California. The purpose of our evaluation was to assess the presence of buried underground storage tanks (USTs) and/or back-filled excavations associated with UST removal in the survey area. In addition, the presence of detectable underground utilities was evaluated in the study area and in the vicinity of proposed boring and soil vapor locations. Our services were conducted on February 13, 2019. This report presents the survey methodology, equipment used, analysis, and results from our study.

We appreciate the opportunity to be of service on this project. Should you have any questions related to this report, please contact the undersigned at your convenience.

Sincerely,
SOUTHWEST GEOPHYSICS, LLC.



Eric R. Carlson
Project Geologist/Geophysicist

ERC/HV/hv

Distribution: Addressee (electronic)



Hans van de Vrugt, C.E.G., P.Gp.
Principal Geologist/Geophysicist



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1. INTRODUCTION

In accordance with your authorization, we have performed a limited geophysical evaluation for the property located at 1500-1546 Anaheim Street in Long Beach, California (Figure 1). The purpose of our evaluation was to assess the presence of buried underground storage tanks (USTs) and/or backfilled excavations associated with UST removal in the study area. In addition, the presence of detectable underground utilities was evaluated in the survey area and in the vicinity of proposed boring and soil vapor locations. Our services were conducted on February 13, 2019. This report presents the survey methodology, equipment used, analysis, and results from our study.

2. SCOPE OF SERVICES

Our scope of services included:

- Performance of a geophysical survey at the subject site. Our survey included the use of a Geonics model EM61 MK2 time domain instrument, GSSI SIR 3000 Ground Penetrating Radar (GPR) unit using a 400 MHz transducer, Schonstedt GA-52 magnetic gradiometer, Fisher M-Scope TW-6 pipe and cable locator, and RD8000 line tracer.
- Site reconnaissance including field mapping of surface structures at and near the survey area.
- Compilation and analysis of the data collected.
- Preparation of this report presenting our findings and conclusions.

3. SITE AND PROJECT DESCRIPTION

The project site is located at the southwest corner of the intersection between Anaheim Street and Walnut Avenue in Long Beach, California (Figure 1). Specifically, our study area includes the fenced in dirt lot bounded by a chain link and block fence to the south, an alley to the west, Anaheim Street to the north, and Walnut Avenue to the east. Figures 2 and 3 depict the general site conditions in the survey area. Several proposed borehole and soil vapor locations in the study area were also evaluated for detectable underground utilities. Heavy rainfall occurred throughout the day of our evaluation, which limited the effectiveness of some instruments.

Based on discussions with your field representative, historical records reported USTs and former buildings on the property. However, details regarding the precise location, size, type, and or installation/removal of the USTs were reportedly not available.

4. GEOPHYSICAL INSTRUMENTATION AND APPLICATIONS

Our evaluation included the use of a Geonics model EM61 MK2 time domain instrument, GSSI SIR 3000 GPR, Schonstedt model GA-52C magnetic gradiometer, Fisher M-Scope TW-6 pipe and cable locator, and RD8000 line tracer. These instruments provide real-time results and facilitate the delineation of subsurface features.

The EM61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long-time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets. Conductive objects to a depth of approximately 11 feet generally can be detected.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at boundaries in the subsurface across which there are an electrical contrast. The recorder continuously makes a record of the reflected energy as the antenna is moved across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The EM wave travels at a velocity unique to the material properties of the ground being studied, and when these velocities are known, or closely estimated from ground conductivity values and other information, two-way travel times can be converted to depth. Penetration into the ground and resolution of the GPR

images produced are a function of ground electrical conductivity and dielectric constant. Images tend to be graphic, even at considerable depth, in sandy soils, but penetration and resolution may be limited in more conductive clayey moist ground.

The magnetic gradiometer has two fluxgate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits an audible signal at a low frequency. When the instrument passes over buried iron or steel objects (so that the field is significantly different at the two sensors) the frequency of the emitted sound increases. Frequency is a function of the gradient between the two sensors.

The M-Scope TW-6 device energizes the ground by producing an alternating primary magnetic field with alternating current (AC) in the transmitting coil. If conducting materials (including soils) are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs an audio response. The strength of the secondary field is a function of the conductivity of the object, its size, and its depth and position relative to the instrument's two coils. Conductive objects to a depth of approximately 10 feet are sensed. Also, the device is somewhat focused, that is, it is more sensitive to conductors below (and above) the instrument, than to conductors off to the side.

Where risers are present, the RD8000 utility locator transmitter can be connected to the object, and a current is impressed on the conductor pipe or cable. The receiver unit is tuned to this same frequency, and it is used to trace the pipe's surface projection away from the riser. The transmitter and receiver can also be used in a non-connect (induction) mode, whereby the transmitter is positioned on the ground and an electromagnetic signal is emitted. In the presence of buried metal pipes and wires, a discrete signal will be induced on the conductor which can be sensed by the receiver. In addition, the instrument may be used in the passive mode, whereby radio and 60 Hz electromagnetic signals produced by communication and live electric lines are detected.

5. SURVEY METHODOLOGY

In order to facilitate the collection of EM61 data, a Trimble Pro XRS global positioning system (GPS) was used for spatial control. Traverses with the EM61 were roughly spaced 5 feet apart and conducted across accessible portions of the survey area. The study area was generally defined by your office. Data points were collected with the instruments at 0.5 second intervals. Notable surface features such as electrical vaults, chain link fencing, planters and other surface objects were mapped with GPS. The geophysical and GPS data were downloaded to a laptop computer in the field for preliminary analysis and further evaluated in our office.

GPR traverses were also performed along profile lines generally spaced 5 feet apart in both north-south and east-west directions across accessible portions of the survey area. The M-Scope and gradiometer were conducted along traverses spaced approximately 5 to 10 feet apart. The line tracer was used in direct connect, passive and inductive modes to delineate the presence of underground utilities in the study area and in the vicinity of proposed boring and soil vapor locations.

6. RESULTS AND CONCLUSIONS

As previously discussed, the purpose of our evaluation was to assess the presence of buried underground storage tanks (USTs) and/or backfilled excavations associated with UST removal in accessible portions of the study area. The results from our study were inconclusive with respect to the presence of backfilled UST excavations or buried USTs. However, it should be noted there were several anomalies throughout the study area showing high EM and magnetic responses, contrasting soil conditions, or shallow non-metallic objects (see Figures 2 and 3). The following is a description of Anomalies A through F as noted on Figure 2:

Anomaly A: This feature is located near the northeast corner of the property. GPR traverses conducted across this feature revealed areas of disturbed soils. This feature produced a relatively high EM and magnetic response and could be associated with a UST or buried metal debris. A possible excavation feature, the purpose of which is unknown, is also located adjacent to this feature.

Anomaly B: Anomaly **B** produced a high EM response. The anomaly is located just south of the northern entrance to the dirt lot. GPR traverses conducted across this feature re-

vealed an object very close to the surface (less than one foot) resembling a metal plate. Several unidentified lines intersect this feature. It could possibly be related to a utility vault, although it's association with a small UST should not be precluded.

Anomalies C and D: Anomaly **C** is located in the northern portion of the study area just southeast of Anomaly **B**, and Anomaly **D** is located just southwest of Anomaly **B**. Each produced relatively high EM responses. Traverses with the GPR revealed unidentified lines (or other linear features) approximately 1 to 2 feet deep going through each of the anomalies. The shape and high EM and magnetic responses of each anomaly is similar to that of old building foundations; however, the presence of USTs in each area should not be precluded.

Anomalies E and F: Anomaly **E** is located just west of Anomaly **D** and Anomaly **F** is located in the southwestern corner of the dirt lot. Each produced a relatively high EM and magnetic response. GPR traverses conducted across each anomaly were inconclusive. Based on the size and shape of the anomalies, the presence of a small UST at each location should not be precluded.

Anomalies G and H: Anomalies **G** and **H** are located along the north side of the property. They did not produce a relatively large EM and magnetic response but the responses do indicate the presence of buried metal in these areas. GPR traverses conducted across these features were inconclusive.

Several underground utility lines were also detected during our survey including unidentified lines (see Figure 2). Some of the unidentified lines appear to be abandoned since they terminate abruptly. There are also several small anomalies observed throughout the property most likely associated with buried metal debris. It should also be noted that while our evaluation was being conducted, several extended periods of heavy rainfall occurred. The rainfall and subsequent saturation of the dirt lot and the presence of puddles limited the effectiveness of some of our equipment, specifically the radar.

In order to further evaluate the features described above we recommend that more direct methods be used. Such methods may include the excavation of exploratory boreholes and/or test pits.

Our survey utilized industry standard equipment (i.e., GPR, electromagnetic, and magnetic instruments) and was conducted in general accordance with current practice. It should be noted, however, that the presence of existing structures and surface objects (i.e., fences, homeless en-

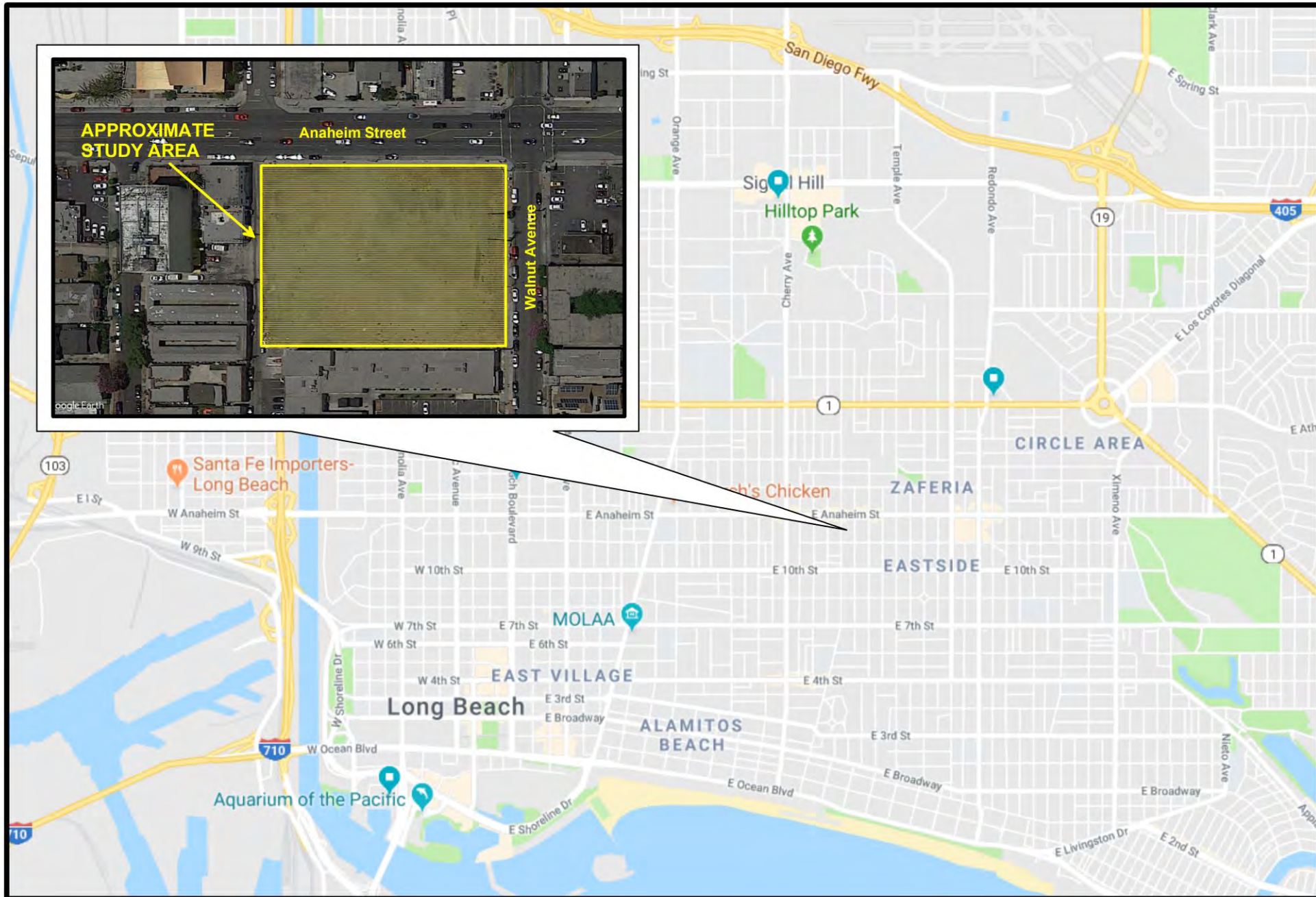
campments, etc.) potentially limited the survey. Where obstructions were present subsurface data could not be collected. Moreover, EM/magnetic responses produced by metal surface objects and underground lines can potentially obscure subsurface features. Figures 2 and 3 present the general site conditions. Radar penetration was on the order of to 3 to 4 feet below the ground surface; therefore, objects below this depth would not have been detected with GPR.

7. LIMITATIONS

The field evaluation and geophysical analyses presented in this report have been conducted in general accordance with current practice and the standard of care exercised by consultants performing similar tasks in the project area. No warranty, express or implied, is made regarding the conclusions and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be present. Uncertainties relative to subsurface conditions can be reduced through additional subsurface surveying and/or exploration. Additional subsurface surveying can be performed upon request.

Please also note that our evaluation was limited to the detection of USTs and/or backfilled tank excavations in the survey area, as well as the presence of detectable underground lines in the vicinity of proposed boring locations. “USA” or “Dig Alert” should also be contacted prior to conducting subsurface exploration activities. In addition, we recommend that available utility plans/drawings of the project site be reviewed as appropriate.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Southwest Geophysics should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document. This report is intended exclusively for use by the client. Any use or reuse of this report by parties other than the client is undertaken at said parties’ sole risk.



SITE LOCATION MAP



1500-1546 Anaheim Street
Long Beach, California

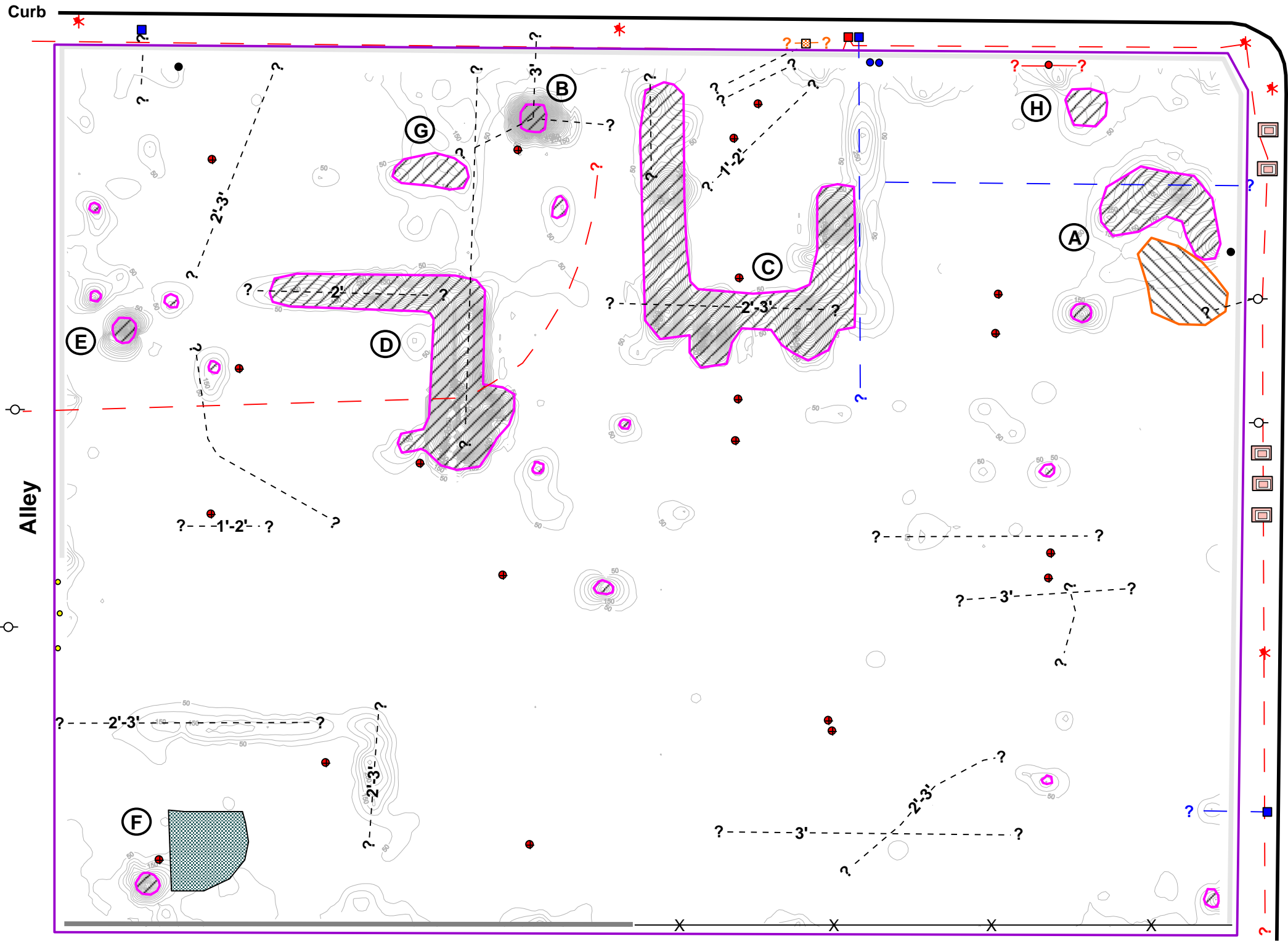
Project No.: 119063

Date: 02/19

SOUTHWEST
GEOPHYSICS
Figure 1

Anaheim Street

Walnut Avenue



LEGEND

- EM Anomaly
- Possible Excavation
- Obstruction
- Boring Location
- Chainlink Fence
- Block Wall
- Fence
- Curb Line
- Survey Limit
- Water Riser
- Water Vault
- Unidentified Riser
- Electric Riser
- Communication Vault
- Transformer
- Street Light
- Utility Pole
- Bollard
- Water Line
- Unidentified Line
- Electric Line
- Communications Line

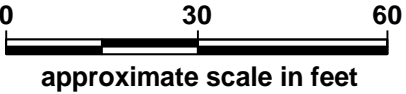
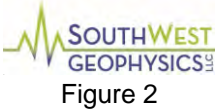
* All dimensions are approximate.
* Line depths reported where measured.
* Lines queried where termination uncertain.

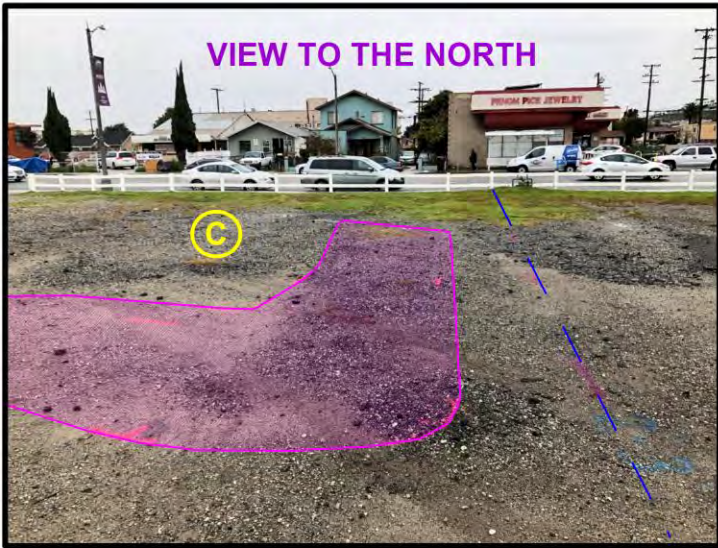
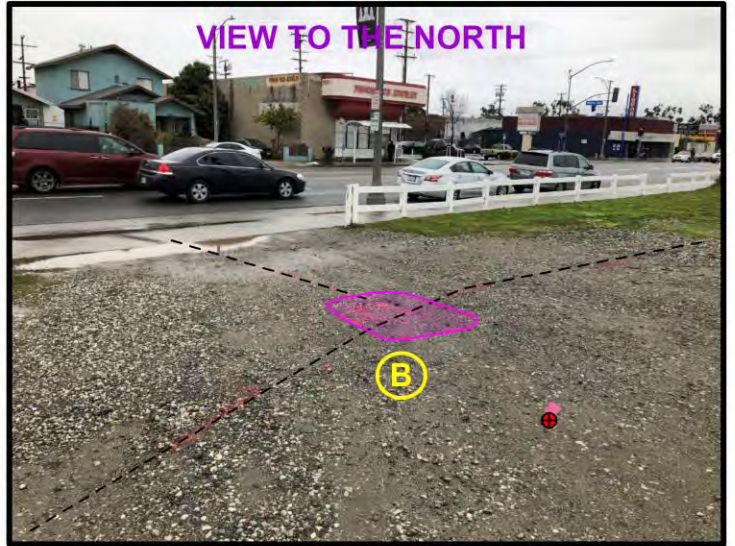
SITE DATA MAP
EM61 Data CI= 50 mVolts



1500-1546 Anaheim Street
Long Beach, California

Project No.: 119063 Date: 02/19





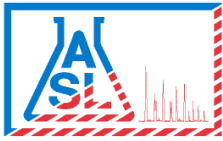
SITE PHOTOGRAPHS

1500-1546 Anaheim Street
Long Beach, California

Project No.: 119063

Date: 02/19

 **SOUTHWEST**
GEOPHYSICS
Figure 3



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

26 February 2019

Luke Montague

SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego, CA 92123

Work Order #: 1902223

Project Name: BRIDGE

Project ID: BRIDGE

Site Address: 1500 E. Anaheim St. Long Beach

Enclosed are the results of analyses for samples received by the laboratory on February 25, 2019. If you have any questions concerning this report, please feel free to contact us.

Wendy Lu

Laboratory Supervisor

Rojert G. Araghi

Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

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83209

GLOBAL ID

REPORT: ☒ PDF ☐ EDF ☐ EDD

ASL JOB#

ASL JOB# 1902223

Company: SCS ENGINEERS										Report To:										ANALYSIS REQUESTED									
Address: 8799 BALBOA AVE										Project Name: BRIDGE										Address:									
SAN DIEGO, CA										Site Address: 1500 E ANAHEIM ST										Invoice To:									
Telephone: 658 571-5500										LONG BEACH										Address:									
Fax:										Project ID: BRIDGE																			
Special Instruction:										Project Manager: LUKE MONTAGUE										P.O.#: 01211126.01									
E-mail: L.MONTAGUE@SCSENGINEERS.COM										Container(s)										Preservation									
LAB USE ONLY										SAMPLE DESCRIPTION										Matrix									
LAB ID										Sample ID										Date									
Time										#										Type									
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[illegible]

COC# **Nº 77688** GLOBAL ID _____ EREPORT: ☒ PDF ☐ EDF ☐ EDD ASL JOB# 1902223

Company: SCS ENGINEERS						ANALYSIS REQUESTED									
Address:		Project Name: BRIDGE		Report To:											
Telephone:		Site Address: PAGE 1		Address:											
Fax:		SEE		Invoice To:											
Special Instruction:		Project ID:		Address:											
E-mail:		Project Manager:		P.O.#:											
LAB USE ONLY		SAMPLE DESCRIPTION			Container(s)		Matrix		Preservation		Remarks				
I	T	Lab ID	Sample ID	Date	Time	#	Type								
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[Empty Sample Rows]															
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Relinquished By:		Date:		Time:		Received For Laboratory		Date: 2.25.19		Time: 9.45		<input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush			
Received By:		Date:		Time:		Condition of Sample:		3 DAY							

Job# 1902223

ASL Sample Receipt Form

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Sample Information:

Temperature: 5.2 °C☐ Blank ☒ Sample

Custody Seal:

☐ Yes ☒ No ☐ Not Available

Received Within Holding Time:

☒ Yes ☐ No

Container:

Proper Containers and Sufficient Volume:

☒ Yes ☐ NoSoil: ☐ 4oz ☐ 8oz ☒ Sleeve ☐ VOAWater: ☐ 500AG ☐ 1AG ☐ 12SPB ☐ 250PB ☐ 500PB ☐ VOA ☐ Other _____Air: ☐ Tedlar®

Sample Containers Intact:

☒ Yes ☐ No

Trip Blank

☐ Yes ☒ No

Chain-of-Custody (COC):

Received:

☒ Yes ☐ No

Samplers Name:

☒ Yes ☐ No

Container Labels match COC:

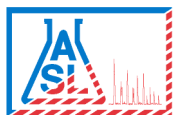
☒ Yes ☐ No

COC documents received complete:

☒ Yes ☐ No

Proper Preservation Noted:

☒ Yes ☐ NoCompleted By: Torret Chin



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

ANALYTICAL SUMMARY REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SCS8-1	1902223-01	Solid	02/20/2019 10:52	02/25/2019 09:45
SCS8-3	1902223-02	Solid	02/20/2019 10:56	02/25/2019 09:45
SCS9-1	1902223-03	Solid	02/20/2019 11:18	02/25/2019 09:45
SCS9-3	1902223-04	Solid	02/20/2019 11:17	02/25/2019 09:45
SCS10-1	1902223-05	Solid	02/20/2019 11:08	02/25/2019 09:45
SCS10-3	1902223-06	Solid	02/20/2019 11:08	02/25/2019 09:45
SCS11-1	1902223-07	Solid	02/20/2019 11:55	02/25/2019 09:45
SCS11-3	1902223-08	Solid	02/20/2019 11:53	02/25/2019 09:45
SCS12-1	1902223-09	Solid	02/20/2019 11:32	02/25/2019 09:45
SCS12-3	1902223-10	Solid	02/20/2019 11:32	02/25/2019 09:45
SCS13-1	1902223-11	Solid	02/20/2019 12:24	02/25/2019 09:45
SCS14-1	1902223-12	Solid	02/20/2019 09:22	02/25/2019 09:45
SCS15-1	1902223-13	Solid	02/20/2019 09:37	02/25/2019 09:45

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Lu, Laboratory Supervisor

**AMERICAN SCIENTIFIC LABORATORIES, LLC****Environmental Testing Services**

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Analytical Results**Client Sample ID: SCS8-1****Laboratory Sample ID: 1902223-01 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	3.80		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 13:39	DAA	8015B
Surrogate: Bromofluorobenzene			85.0 %		70-120	5030A	02/25/2019 13:39	DAA	8015B
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90687		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 15:40	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 15:40	DAA	8015B
Surrogate: Chlorobenzene			91.4 %		70-120	3550B	02/25/2019 15:40	DAA	8015B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
4,4'-DDD	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
4,4'-DDE	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 12:27	AY	8081A
Surrogate: Decachlorobiphenyl			97.7 %		43-169	3545	02/26/2019 12:27	AY	8081A

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS8-1****Laboratory Sample ID: 1902223-01 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713			Prepared: 02/25/2019 10:30			
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
2,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS8-1****Laboratory Sample ID: 1902223-01 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 14:51	DAA	8260B
Surrogate: 4-Bromofluorobenzene			105 %	70-120		5030A	02/25/2019 14:51	DAA	8260B
Surrogate: Dibromofluoromethane			102 %	70-120		5030A	02/25/2019 14:51	DAA	8260B
Surrogate: Toluene-d8			95.2 %	70-120		5030A	02/25/2019 14:51	DAA	8260B

Analytical Results**Client Sample ID: SCS8-3****Laboratory Sample ID: 1902223-02 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 14:02	DAA	8015B
Surrogate: Bromofluorobenzene			107 %	70-120		5030A	02/25/2019 14:02	DAA	8015B

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Analytical Results**Client Sample ID: SCS8-3****Laboratory Sample ID: 1902223-02 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90673		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 15:05	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 15:05	DAA	8015B
Surrogate: Chlorobenzene			107 %	70-120		3550B	02/25/2019 15:05	DAA	8015B
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS8-3****Laboratory Sample ID: 1902223-02 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713			Prepared: 02/25/2019 10:30			
1,3-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
2,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:29	DAA	8260B
Surrogate: 4-Bromofluorobenzene			108 %		70-120	5030A	02/25/2019 17:29	DAA	8260B
Surrogate: Dibromofluoromethane			107 %		70-120	5030A	02/25/2019 17:29	DAA	8260B
Surrogate: Toluene-d8			94.5 %		70-120	5030A	02/25/2019 17:29	DAA	8260B

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Wendy Lu, Laboratory Supervisor

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

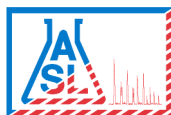
Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS9-1****Laboratory Sample ID: 1902223-03 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	6.39		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 14:25	DAA	8015B
Surrogate: Bromofluorobenzene			83.5 %		70-120	5030A	02/25/2019 14:25	DAA	8015B
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90687		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 16:22	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 16:22	DAA	8015B
Surrogate: Chlorobenzene			104 %		70-120	3550B	02/25/2019 16:22	DAA	8015B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
4,4'-DDD	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
4,4'-DDE	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 12:44	AY	8081A
Surrogate: Decachlorobiphenyl			110 %		43-169	3545	02/26/2019 12:44	AY	8081A

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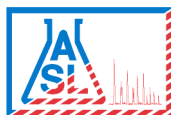
Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS9-1****Laboratory Sample ID: 1902223-03 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713			Prepared: 02/25/2019 10:30			
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
2,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS9-1****Laboratory Sample ID: 1902223-03 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 17:56	DAA	8260B
Surrogate: 4-Bromofluorobenzene			104 %		70-120	5030A	02/25/2019 17:56	DAA	8260B
Surrogate: Dibromofluoromethane			106 %		70-120	5030A	02/25/2019 17:56	DAA	8260B
Surrogate: Toluene-d8			93.8 %		70-120	5030A	02/25/2019 17:56	DAA	8260B

Analytical Results**Client Sample ID: SCS9-3****Laboratory Sample ID: 1902223-04 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90700		Prepared: 02/26/2019 09:00				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/26/2019 11:16	DAA	8015B
Surrogate: Bromofluorobenzene			77.4 %		70-120	5030A	02/26/2019 11:16	DAA	8015B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS9-3****Laboratory Sample ID: 1902223-04 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90687		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 17:03	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 17:03	DAA	8015B
Surrogate: Chlorobenzene			104 %	70-120		3550B	02/25/2019 17:03	DAA	8015B
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS9-3****Laboratory Sample ID: 1902223-04 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
1,3-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
2,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:22	DAA	8260B
Surrogate: 4-Bromofluorobenzene			119 %		70-120	5030A	02/25/2019 18:22	DAA	8260B
Surrogate: Dibromofluoromethane			119 %		70-120	5030A	02/25/2019 18:22	DAA	8260B
Surrogate: Toluene-d8			85.7 %		70-120	5030A	02/25/2019 18:22	DAA	8260B

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Wendy Lu, Laboratory Supervisor

**AMERICAN SCIENTIFIC LABORATORIES, LLC****Environmental Testing Services**

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS10-1****Laboratory Sample ID: 1902223-05 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	90.9		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90700		Prepared: 02/26/2019 09:00				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/26/2019 11:39	DAA	8015B
Surrogate: Bromofluorobenzene			95.2 %		70-120	5030A	02/26/2019 11:39	DAA	8015B
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90687		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 18:28	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 18:28	DAA	8015B
Surrogate: Chlorobenzene			116 %		70-120	3550B	02/25/2019 18:28	DAA	8015B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
4,4'-DDD	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
4,4'-DDE	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 13:00	AY	8081A
Surrogate: Decachlorobiphenyl			104 %		43-169	3545	02/26/2019 13:00	AY	8081A

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

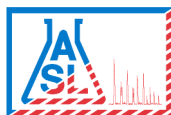
Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS10-1****Laboratory Sample ID: 1902223-05 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713			Prepared: 02/25/2019 10:30			
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
2,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS10-1****Laboratory Sample ID: 1902223-05 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 18:48	DAA	8260B
Surrogate: 4-Bromofluorobenzene			111 %	70-120		5030A	02/25/2019 18:48	DAA	8260B
Surrogate: Dibromofluoromethane			114 %	70-120		5030A	02/25/2019 18:48	DAA	8260B
Surrogate: Toluene-d8			90.1 %	70-120		5030A	02/25/2019 18:48	DAA	8260B

Analytical Results**Client Sample ID: SCS10-3****Laboratory Sample ID: 1902223-06 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90700		Prepared: 02/26/2019 09:00				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/26/2019 12:01	DAA	8015B
Surrogate: Bromofluorobenzene			80.0 %	70-120		5030A	02/26/2019 12:01	DAA	8015B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS10-3****Laboratory Sample ID: 1902223-06 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90673		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 17:59	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 17:59	DAA	8015B
Surrogate: Chlorobenzene			96.3 %	70-120		3550B	02/25/2019 17:59	DAA	8015B
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS10-3****Laboratory Sample ID: 1902223-06 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
1,3-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
2,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:14	DAA	8260B
Surrogate: 4-Bromofluorobenzene			111 %		70-120	5030A	02/25/2019 19:14	DAA	8260B
Surrogate: Dibromofluoromethane			110 %		70-120	5030A	02/25/2019 19:14	DAA	8260B
Surrogate: Toluene-d8			95.7 %		70-120	5030A	02/25/2019 19:14	DAA	8260B

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**AMERICAN SCIENTIFIC LABORATORIES, LLC***Environmental Testing Services*

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS11-1****Laboratory Sample ID: 1902223-07 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	5.40		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 16:19	DAA	8015B
Surrogate: Bromofluorobenzene			82.7 %		70-120	5030A	02/25/2019 16:19	DAA	8015B
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90673		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 15:49	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 15:49	DAA	8015B
Surrogate: Chlorobenzene			107 %		70-120	3550B	02/25/2019 15:49	DAA	8015B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
4,4'-DDD	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
4,4'-DDE	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 13:19	AY	8081A
Surrogate: Decachlorobiphenyl			105 %		43-169	3545	02/26/2019 13:19	AY	8081A

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

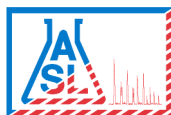
Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS11-1****Laboratory Sample ID: 1902223-07 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713			Prepared: 02/25/2019 10:30			
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
2,2-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B

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**AMERICAN SCIENTIFIC LABORATORIES, LLC***Environmental Testing Services*

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS11-1****Laboratory Sample ID: 1902223-07 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
1,3,5-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 19:41	DAA	8260B
Surrogate: 4-Bromofluorobenzene			120 %	70-120		5030A	02/25/2019 19:41	DAA	8260B
Surrogate: Dibromofluoromethane			110 %	70-120		5030A	02/25/2019 19:41	DAA	8260B
Surrogate: Toluene-d8			94.3 %	70-120		5030A	02/25/2019 19:41	DAA	8260B

Analytical Results**Client Sample ID: SCS11-3****Laboratory Sample ID: 1902223-08 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 16:42	DAA	8015B
Surrogate: Bromofluorobenzene			86.6 %	70-120		5030A	02/25/2019 16:42	DAA	8015B

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Analytical Results**Client Sample ID: SCS11-3****Laboratory Sample ID: 1902223-08 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90673		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 16:32	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 16:32	DAA	8015B
Surrogate: Chlorobenzene			105 %	70-120		3550B	02/25/2019 16:32	DAA	8015B

Analytical Results**Client Sample ID: SCS12-1****Laboratory Sample ID: 1902223-09 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	66.4		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 17:05	DAA	8015B
Surrogate: Bromofluorobenzene			70.0 %	70-120		5030A	02/25/2019 17:05	DAA	8015B
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90687		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 17:45	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 17:45	DAA	8015B
Surrogate: Chlorobenzene			116 %	70-120		3550B	02/25/2019 17:45	DAA	8015B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
alpha-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
4,4'-DDD	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
4,4'-DDE	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A

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Wendy Lu, Laboratory Supervisor

**AMERICAN SCIENTIFIC LABORATORIES, LLC****Environmental Testing Services**

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Analytical Results**Client Sample ID: SCS12-1****Laboratory Sample ID: 1902223-09 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 13:35	AY	8081A
Surrogate: Decachlorobiphenyl			95.9 %	43-169		3545	02/26/2019 13:35	AY	8081A
Volatile Organic Compounds			Batch ID: BB90713		Prepared: 02/25/2019 10:30				
Acetone	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Benzene	ND		2.00	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Bromobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Bromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Bromodichloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Bromoform	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Bromomethane	ND		30.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
2-Butanone	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
n-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
sec-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
tert-Butylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Carbon disulfide	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Carbon tetrachloride	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Chlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Chloroethane	ND		30.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
2-Chloroethylvinyl Ether	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Chloroform	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Chloromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
4-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
2-Chlorotoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2-Dibromo-3-chloropropane	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Dibromochloromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2-Dibromoethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Dibromomethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,3-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,4-Dichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Dichlorodifluoromethane	ND		30.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,1-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2-Dichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,1-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
cis-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
trans-1,2-Dichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B

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Wendy Lu, Laboratory Supervisor

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS12-1****Laboratory Sample ID: 1902223-09 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Volatile Organic Compounds			Batch ID: BB90713			Prepared: 02/25/2019 10:30			
1,1-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,3-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
2,2-Dichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
cis-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
trans-1,3-Dichloropropene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Ethylbenzene	ND		2.00	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Hexachlorobutadiene	ND		30.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
2-Hexanone	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Isopropylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
p-Isopropyltoluene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Methyl tert-Butyl Ether (MTBE)	ND		5.00	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
4-Methyl-2-pentanone (MIBK)	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Methylene chloride	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Naphthalene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
n-Propylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Styrene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,1,1,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,1,2,2-Tetrachloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Tetrachloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Toluene	ND		2.00	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2,3-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2,4-Trichlorobenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,1,1-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,1,2-Trichloroethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Trichloroethene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Trichlorofluoromethane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2,3-Trichloropropane	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,2,4-Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
1,3,5- Trimethylbenzene	ND		10.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Vinyl acetate	ND		50.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Vinyl chloride	ND		30.0	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
m,p-Xylenes	ND		4.00	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
o-Xylene	ND		2.00	ug/kg	1	5030A	02/25/2019 20:07	DAA	8260B
Surrogate: 4-Bromofluorobenzene			113 %		70-120	5030A	02/25/2019 20:07	DAA	8260B
Surrogate: Dibromofluoromethane			114 %		70-120	5030A	02/25/2019 20:07	DAA	8260B
Surrogate: Toluene-d8			91.9 %		70-120	5030A	02/25/2019 20:07	DAA	8260B

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Analytical Results**Client Sample ID: SCS12-3****Laboratory Sample ID: 1902223-10 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Petroleum Hydrocarbons(TPH-g)			Batch ID: BB90698		Prepared: 02/25/2019 10:30				
Gasoline Range Organics	ND		500	ug/kg	1	5030A	02/25/2019 17:28	DAA	8015B
Surrogate: Bromofluorobenzene			81.7 %		70-120	5030A	02/25/2019 17:28	DAA	8015B
Total Petroleum Hydrocarbons(TPH DROORO)			Batch ID: BB90673		Prepared: 02/25/2019 10:30				
Diesel range organics	ND		10.0	mg/kg	1	3550B	02/25/2019 17:16	DAA	8015B
Oil Range Organics	ND		50.0	mg/kg	1	3550B	02/25/2019 17:16	DAA	8015B
Surrogate: Chlorobenzene			102 %		70-120	3550B	02/25/2019 17:16	DAA	8015B

Analytical Results**Client Sample ID: SCS13-1****Laboratory Sample ID: 1902223-11 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	15.2		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
gamma-Chlordane	34.0		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
alpha-Chlordane	25.9		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
4,4'-DDD	17.2		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
4,4'-DDE	6.01		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Dieldrin	35.0		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Endrin aldehyde	4.56		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Chlordane (total)	254		100	ug/kg	1	3545	02/26/2019 13:52	AY	8081A
Surrogate: Decachlorobiphenyl			126 %		43-169	3545	02/26/2019 13:52	AY	8081A

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SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke Montague

Work Order No: 1902223

Reported:
02/26/2019 16:00**Analytical Results****Client Sample ID: SCS14-1****Laboratory Sample ID: 1902223-12 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	59.1		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
gamma-Chlordane	5.12		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
alpha-Chlordane	15.1		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
4,4'-DDD	26.2		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
4,4'-DDE	174		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
4,4'-DDT	11.9		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Dieldrin	7.60		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 14:39	AY	8081A
Surrogate: Decachlorobiphenyl			90.3 %	43-169		3545	02/26/2019 14:39	AY	8081A

Analytical Results**Client Sample ID: SCS15-1****Laboratory Sample ID: 1902223-13 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BB90669		Prepared: 02/25/2019 11:10				
Lead	8.70		0.250	mg/kg	1	3050B	02/25/2019 14:49	LVE	SW846 6010B
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
Aldrin	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
alpha-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
beta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
gamma-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A

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AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Analytical Results

Client Sample ID: SCS15-1

Laboratory Sample ID: 1902223-13 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Organochlorine Pesticides			Batch ID: BB90660		Prepared: 02/25/2019 14:32				
alpha-Chlordane	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
4,4'-DDD	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
4,4'-DDE	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
4,4'-DDT	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
delta-BHC	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Dieldrin	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Endosulfan I	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Endosulfan II	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Endosulfan sulfate	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Endrin	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Endrin aldehyde	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Endrin ketone	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
gamma-BHC, Lindane	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Heptachlor	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Heptachlor Epoxide	ND		2.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Methoxychlor	ND		4.00	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Toxaphene	ND		170	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Chlordane (total)	ND		100	ug/kg	1	3545	02/26/2019 14:54	AY	8081A
Surrogate: Decachlorobiphenyl			115 %	43-169		3545	02/26/2019 14:54	AY	8081A

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB90669 - 3050B - SW846 6010B										
Blank (BB90669-BLK1)				Prepared & Analyzed: 02/25/201						
Lead	ND	0.250	mg/kg							
LCS (BB90669-BS1)				Prepared & Analyzed: 02/25/201						
Lead	99.3	0.500	mg/kg	100		99.3	80-120			
LCS Dup (BB90669-BSD1)				Prepared & Analyzed: 02/25/201						
Lead	107	0.500	mg/kg	100		107	80-120	7.80	20	

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AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Total Petroleum Hydrocarbons(TPH-g) - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BB90698 - 5030A - 8015B

Blank (BB90698-BLK1)

Prepared: 02/26/201 Analyzed: 02/25/201

Gasoline Range Organics	ND	500	ug/kg							
Surrogate: Bromofluorobenzene	10.0		"	10.0		100	70-120			

Matrix Spike (BB90698-MS1)

Source: 1902223-08

Prepared & Analyzed: 02/25/201

Gasoline Range Organics	557		ug/kg	500	19.2	107	75-120			
Surrogate: Bromofluorobenzene	10.2		"	10.0		102	70-120			

Matrix Spike Dup (BB90698-MSD1)

Source: 1902223-08

Prepared & Analyzed: 02/25/201

Gasoline Range Organics	575		ug/kg	500	19.2	111	75-120	3.22	15	
Surrogate: Bromofluorobenzene	8.80		"	10.0		88.0	70-120			

Batch BB90700 - 5030A - 8015B

Blank (BB90700-BLK1)

Prepared & Analyzed: 02/26/201

Gasoline Range Organics	ND	500	ug/kg							
Surrogate: Bromofluorobenzene	7.80		"	10.0		78.0	70-120			

Matrix Spike (BB90700-MS1)

Source: 1902223-04

Prepared & Analyzed: 02/26/201

Gasoline Range Organics	469		ug/kg	500	22.3	89.3	75-120			
Surrogate: Bromofluorobenzene	9.50		"	10.0		95.0	70-120			

Matrix Spike Dup (BB90700-MSD1)

Source: 1902223-04

Prepared & Analyzed: 02/26/201

Gasoline Range Organics	524		ug/kg	500	22.3	100	75-120	11.1	15	
Surrogate: Bromofluorobenzene	9.60		"	10.0		96.0	70-120			

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Wendy Lu, Laboratory Supervisor



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San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Total Petroleum Hydrocarbons(TPH DROORO) - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BB90673 - 3550B - 8015B

Blank (BB90673-BLK1)

Prepared & Analyzed: 02/25/201

Diesel range organics	ND	10.0	mg/kg							J
Oil Range Organics	ND	50.0	"							
Surrogate: Chlorobenzene	99.6		"	100		99.6	70-120			

Matrix Spike (BB90673-MS1)

Source: 1902223-08

Prepared & Analyzed: 02/25/201

Diesel range organics	551		mg/kg	500	4.55	109	75-120			
Surrogate: Chlorobenzene	91.5		"	100		91.5	70-120			

Matrix Spike Dup (BB90673-MSD1)

Source: 1902223-08

Prepared & Analyzed: 02/25/201

Diesel range organics	569		mg/kg	500	4.55	113	75-120	3.18	15	
Surrogate: Chlorobenzene	96.5		"	100		96.5	70-120			

Batch BB90687 - 3550B - 8015B

Blank (BB90687-BLK1)

Prepared & Analyzed: 02/25/201

Diesel range organics	ND	10.0	mg/kg							
Oil Range Organics	ND	50.0	"							
Surrogate: Chlorobenzene	95.4		"	100		95.4	70-120			

Matrix Spike (BB90687-MS1)

Source: 1902223-09

Prepared & Analyzed: 02/25/201

Diesel range organics	530		mg/kg	500	5.83	105	75-120			
Surrogate: Chlorobenzene	92.8		"	100		92.8	70-120			

Matrix Spike Dup (BB90687-MSD1)

Source: 1902223-09

Prepared & Analyzed: 02/25/201

Diesel range organics	576		mg/kg	500	5.83	114	75-120	8.49	15	
Surrogate: Chlorobenzene	107		"	100		107	70-120			

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Organochlorine Pesticides - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BB90660 - 3545 - 8081A**Blank (BB90660-BLK1)**

Prepared: 02/25/201 Analyzed: 02/26/201

Aldrin	ND	2.00	ug/kg
alpha-BHC	ND	2.00	"
beta-BHC	ND	2.00	"
gamma-Chlordane	ND	2.00	"
alpha-Chlordane	ND	2.00	"
4,4'-DDD	ND	4.00	"
4,4'-DDE	ND	4.00	"
4,4'-DDT	ND	4.00	"
delta-BHC	ND	2.00	"
Dieldrin	ND	4.00	"
Endosulfan I	ND	2.00	"
Endosulfan II	ND	4.00	"
Endosulfan sulfate	ND	4.00	"
Endrin	ND	4.00	"
Endrin aldehyde	ND	4.00	"
Endrin ketone	ND	4.00	"
gamma-BHC, Lindane	ND	2.00	"
Heptachlor	ND	2.00	"
Heptachlor Epoxide	ND	2.00	"
Methoxychlor	ND	4.00	"
Toxaphene	ND	170	"
Chlordane (total)	ND	100	"

Surrogate: Decachlorobiphenyl	19.7	"	16.7	118	43-169
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LCS (BB90660-BS1)

Prepared: 02/25/201 Analyzed: 02/26/201

Aldrin	16.2	2.00	ug/kg	16.7	97.2	42-122
4,4'-DDT	17.7	4.00	"	16.7	106	25-160
Dieldrin	17.4	4.00	"	16.7	104	36-146
Endrin	18.2	4.00	"	16.7	109	30-147
gamma-BHC, Lindane	16.0	2.00	"	16.7	96.2	32-127
Heptachlor	16.8	2.00	"	16.7	101	34-111

Surrogate: Decachlorobiphenyl	19.7	"	16.7	118	43-169
-------------------------------	------	---	------	-----	--------

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Wendy Lu, Laboratory Supervisor



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Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Organochlorine Pesticides - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BB90660 - 3545 - 8081A

LCS Dup (BB90660-BSD1)

Prepared: 02/25/201 Analyzed: 02/26/201

Aldrin	14.8	2.00	ug/kg	16.7		88.9	42-122	8.90	30	
4,4'-DDT	17.9	4.00	"	16.7		108	25-160	1.58	30	
Dieldrin	15.5	4.00	"	16.7		93.0	36-146	11.6	30	
Endrin	16.8	4.00	"	16.7		101	30-147	8.01	30	
gamma-BHC, Lindane	16.0	2.00	"	16.7		96.2	32-127	0.0187	30	
Heptachlor	14.5	2.00	"	16.7		87.2	34-111	14.4	30	
Surrogate: Decachlorobiphenyl	20.0		"	16.7		120	43-169			

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San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Volatile Organic Compounds - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BB90713 - 5030A - 8260B

Blank (BB90713-BLK1)

Prepared & Analyzed: 02/25/201

Acetone	ND	50.0	ug/kg
Benzene	ND	2.00	"
Bromobenzene	ND	10.0	"
Bromochloromethane	ND	10.0	"
Bromodichloromethane	ND	10.0	"
Bromoform	ND	50.0	"
Bromomethane	ND	30.0	"
2-Butanone	ND	50.0	"
n-Butylbenzene	ND	10.0	"
sec-Butylbenzene	ND	10.0	"
tert-Butylbenzene	ND	10.0	"
Carbon disulfide	ND	10.0	"
Carbon tetrachloride	ND	10.0	"
Chlorobenzene	ND	10.0	"
Chloroethane	ND	30.0	"
2-Chloroethylvinyl Ether	ND	50.0	"
Chloroform	ND	10.0	"
Chloromethane	ND	30.0	"
4-Chlorotoluene	ND	10.0	"
2-Chlorotoluene	ND	10.0	"
1,2-Dibromo-3-chloropropane	ND	50.0	"
Dibromochloromethane	ND	10.0	"
1,2-Dibromoethane	ND	10.0	"
Dibromomethane	ND	10.0	"
1,2-Dichlorobenzene	ND	10.0	"
1,3-Dichlorobenzene	ND	10.0	"
1,4-Dichlorobenzene	ND	10.0	"
Dichlorodifluoromethane	ND	30.0	"
1,1-Dichloroethane	ND	10.0	"
1,2-Dichloroethane	ND	10.0	"
1,1-Dichloroethene	ND	10.0	"
cis-1,2-Dichloroethene	ND	10.0	"
trans-1,2-Dichloroethene	ND	10.0	"
1,1-Dichloropropene	ND	10.0	"
1,2-Dichloropropane	ND	10.0	"
1,3-Dichloropropane	ND	10.0	"
2,2-Dichloropropane	ND	10.0	"
cis-1,3-Dichloropropene	ND	10.0	"
trans-1,3-Dichloropropene	ND	10.0	"
Ethylbenzene	ND	2.00	"
Hexachlorobutadiene	ND	30.0	"

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Wendy Lu, Laboratory Supervisor

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Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Volatile Organic Compounds - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BB90713 - 5030A - 8260B**Blank (BB90713-BLK1)**

Prepared & Analyzed: 02/25/201

2-Hexanone	ND	50.0	ug/kg							
Isopropylbenzene	ND	10.0	"							
p-Isopropyltoluene	ND	10.0	"							
Methyl tert-Butyl Ether (MTBE)	ND	5.00	"							
4-Methyl-2-pentanone (MIBK)	ND	50.0	"							
Methylene chloride	ND	50.0	"							J
Naphthalene	ND	10.0	"							
n-Propylbenzene	ND	10.0	"							
Styrene	ND	10.0	"							
1,1,1,2-Tetrachloroethane	ND	10.0	"							
1,1,2,2-Tetrachloroethane	ND	10.0	"							
Tetrachloroethene	ND	10.0	"							
Toluene	ND	2.00	"							
1,2,3-Trichlorobenzene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
1,1,1-Trichloroethane	ND	10.0	"							
1,1,2-Trichloroethane	ND	10.0	"							
Trichloroethene	ND	10.0	"							
Trichlorofluoromethane	ND	10.0	"							
1,2,3-Trichloropropane	ND	10.0	"							
1,2,4-Trimethylbenzene	ND	10.0	"							
1,3,5-Trimethylbenzene	ND	10.0	"							
Vinyl acetate	ND	50.0	"							
Vinyl chloride	ND	30.0	"							
m,p-Xylenes	ND	4.00	"							
o-Xylene	ND	2.00	"							
Surrogate: 4-Bromofluorobenzene	53.5		"	50.0		107	70-120			
Surrogate: Dibromofluoromethane	55.5		"	50.0		111	70-120			
Surrogate: Toluene-d8	48.2		"	50.0		96.5	70-120			

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Reported:

02/26/2019 16:00

Volatile Organic Compounds - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BB90713 - 5030A - 8260B**Matrix Spike (BB90713-MS1)****Source: 1902223-01**

Prepared & Analyzed: 02/25/201

Benzene	52.4		ug/kg	50.0	0.00	105	75-120			
Chlorobenzene	41.6		"	50.0	0.00	83.2	75-120			
1,1-Dichloroethene	50.9		"	50.0	0.00	102	75-120			
Methyl tert-Butyl Ether (MTBE)	55.9		"	50.0	0.00	112	75-120			
Toluene	50.9		"	50.0	0.180	101	75-120			
Trichloroethene	51.5		"	50.0	0.00	103	75-120			
Surrogate: 4-Bromofluorobenzene	53.2		"	50.0		106	70-120			
Surrogate: Dibromofluoromethane	50.7		"	50.0		101	70-120			
Surrogate: Toluene-d8	48.8		"	50.0		97.7	70-120			

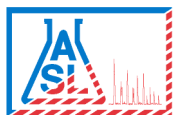
Matrix Spike Dup (BB90713-MSD1)**Source: 1902223-01**

Prepared & Analyzed: 02/25/201

Benzene	56.8		ug/kg	50.0	0.00	114	75-120	8.17	15	
Chlorobenzene	42.0		"	50.0	0.00	84.0	75-120	0.981	15	
1,1-Dichloroethene	55.8		"	50.0	0.00	112	75-120	9.08	15	
Methyl tert-Butyl Ether (MTBE)	54.2		"	50.0	0.00	108	75-120	3.14	15	
Toluene	57.4		"	50.0	0.180	114	75-120	12.1	15	
Trichloroethene	58.0		"	50.0	0.00	116	75-120	11.8	15	
Surrogate: 4-Bromofluorobenzene	53.2		"	50.0		106	70-120			
Surrogate: Dibromofluoromethane	52.6		"	50.0		105	70-120			
Surrogate: Toluene-d8	49.3		"	50.0		98.6	70-120			

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Wendy Lu, Laboratory Supervisor



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Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902223

Reported:

02/26/2019 16:00

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

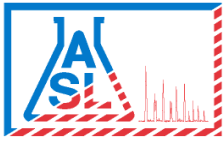
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the practical quantitation limit (PQL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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04 March 2019
Luke Montague
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Work Order #: 1902246

Project Name: BRIDGE

Project ID: BRIDGE

Site Address: 1500 E. Anaheim St. Long Beach

Enclosed are the results of analyses for samples received by the laboratory on February 27, 2019. If you have any questions concerning this report, please feel free to contact us.

Wendy Lu
Laboratory Supervisor

Rojert G. Araghi
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, L.A., CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Additional Test Request (2-27-19)

3 Days TAT, Report Due (3-4-19) 1 of 3

COC# 83209

GLOBAL ID

REPORT: ☒ PDF ☐ EDF ☐ EDD

NEW JOB# 1902246
ASL JOB# 1902223

Company: SCS ENGINEERS				Project Name: BRIDGE				Report To:				ANALYSES REQUESTED			
Address: 8799 BALBOA AVE				Site Address: 1500 E ANAHEIM ST				Address:							
SAN DIEGO, CA				LONG BEACH				Invoice To:							
Telephone: 658 571-5500				Project ID: BRIDGE				Address:							
Special Instruction:				Project Manager: LUKE MONTAGUE				P.O.#: 01211126.01							
E-mail: L.MONTAGUE@SCSEXLABS.COM				Container(s)				Matrix				Preservation			
LAB USE ONLY				SAMPLE DESCRIPTION											
LAB ID	Sample ID	Date	Time	#	Type										
1 19022223-01	SCS8-1	2/20/19	1052	1	ACETATE SLEEVE	SOIL				ICE					
2 19022223-02	SCS8-3		1056												
	SCS8-5		1057												
3 19022223-03	SCS9-1		1118												
4 19022223-04	SCS9-3		1117												
	SCS9-5		1120												
5 19022223-05	SCS10-1		1109												
6 19022223-06	SCS10-3		1108												
	SCS10-5		1110												
7 19022223-07	SCS11-1		1155												
Collected By: [Signature]						Date 2/20/19		Time 1335		Relinquished By: [Signature]		Date 2/21/19		Time 1445	
Relinquished By: [Signature]						Date		Time		Received For Laboratory		Date 2-25-19		Time 9:45	
Received By: [Signature]						Date		Time		Condition of Sample:		2 DAY		TAT	
												<input type="checkbox"/> Normal		<input checked="" type="checkbox"/> Rush	



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Page 2 of 3

COC# **Nº 77692** GLOBAL ID

EREPORT: ☒ PDF ☐ EDF ☐ EDD

NEW JOB# 19022246
ASL JOB# 1902223

LAB USE ONLY				SAMPLE DESCRIPTION			Container(s)		Report To:		ANALYSIS REQUESTED						
LAB ID	Sample ID	Date	Time	#	Type	Matrix	Preservation	Address:	Invoice To:	Address:	TPH EXT (8015M)	VOCs (8260B)	LEAD (6010B)	OCPS (8081)	Additional METALS (6010B) 2/21/19	Remarks	
8 1902223-08	SCS 11-3	2/20/19	1153	1	ACETATE SLEEVE	SOIL	ICE				X						New I.D.
	SCS 11-5		1157														
	SCS 11-8		1200														
	SCS 11-10		1200														
9 1902223-09	SCS 12-1		1132								X	X	X	X	✓		1902246-03
10 1902223-10	SCS 12-3		1132								X						
	SCS 12-5		1136														
	SCS 12-8		1139														
	SCS 12-10		1139														
11 1902223-11	SCS 13-1		1224														
Collected By: <u>[Signature]</u>	Date	2/20/19	Time	1335	Relinquished By: <u>[Signature]</u>		Date	2/21/19	Time	1445	TAT						
Relinquished By: <u>[Signature]</u>	Date		Time		Received For Laboratory		Date	2.25-19	Time	9:45	<input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush						
Received By: <u>[Signature]</u>	Date		Time		Condition of Sample:							2 DAY - 3 DAY					

White - Report, Yellow - Laboratory, Pink - Client

COC# N° 77688 GLOBAL ID

E REPORT: ☒ PDF ☐ EDF ☐ EDD ASL JOB# 1902223

NEW JOB # 1922246

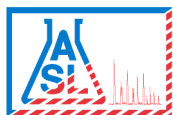
ASL JOB# 1902223

Company: SCS ENGINEERS		Report To:		ANALYSIS REQUESTED	
Address:		Project Name: BRIDGE		Address:	
Telephone:		Site Address: PAGE 1		Invoice To:	
Fax:		Project ID: SEE		Address:	
Special Instruction:		Project Manager:		P.O.#:	
E-mail:		Project Manager:		P.O.#:	

LAB USE ONLY		SAMPLE DESCRIPTION			Container(s)		Matrix	Preservation	Remarks	
I	T	Lab ID	Sample ID	Date	Time	#				Type
12	1902223-12		SCS14-1	2/20/19	0922	1	ACETATE	SOIL	ICE	✓
13	1902223-13		SCS15-1	2/20/19	0937	1	↓	↓	↓	✓
/										

Collected By: [Signature]	Date: 2/26/19	Time: 1335	Relinquished By: [Signature]	Date: 2/21/19	Time: 1445
Relinquished By: [Signature]	Date: 2/26/19	Time: 1335	Received For Laboratory: [Signature]	Date: 2/25/19	Time: 9:45
Received By: [Signature]	Date: 2/26/19	Time: 1335	Condition of Sample: [Signature]	Date: 2/25/19	Time: 9:45

TAT ☐ Normal ☒ Rush



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

ANALYTICAL SUMMARY REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SCS10-1	1902246-01	Solid	02/20/2019 11:08	02/27/2019 10:35
SCS10-3	1902246-02	Solid	02/20/2019 11:08	02/27/2019 10:35
SCS12-1	1902246-03	Solid	02/20/2019 11:32	02/27/2019 10:35
SCS14-1	1902246-04	Solid	02/20/2019 09:22	02/27/2019 10:35

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Lu, Laboratory Supervisor

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8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Analytical Results**Client Sample ID: SCS10-1****Laboratory Sample ID: 1902246-01 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)			Batch ID: BC90091			Prepared: 03/01/2019 10:34			
Mercury	0.0699		0.0500	mg/kg	1	7471A	03/04/2019 10:35	LVE	7471A
Total ICP Metals			Batch ID: BC90092			Prepared: 02/25/2019 10:37			
Antimony	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Arsenic	32.9		0.250	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Barium	144		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Cadmium	1.95		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Chromium	19.4		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Cobalt	7.86		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Copper	29.3		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Lead	90.9		0.250	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Molybdenum	0.568		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Nickel	12.2		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Vanadium	32.4		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Zinc	642		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
STLC Metals			Batch ID: BC90090			Prepared: 02/27/2019 13:31			
Lead	4.65		0.500	mg/L	1	STLC	03/04/2019 11:05	LVE	STLC

Analytical Results**Client Sample ID: SCS10-3****Laboratory Sample ID: 1902246-02 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90089			Prepared: 02/27/2019 13:27			
Lead	9.87		0.250	mg/kg	1	3050B	03/01/2019 13:48	LVE	SW846 6010B

Analytical Results**Client Sample ID: SCS12-1****Laboratory Sample ID: 1902246-03 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)			Batch ID: BC90091			Prepared: 03/01/2019 10:34			
Mercury	ND		0.0500	mg/kg	1	7471A	03/04/2019 10:35	LVE	7471A
Total ICP Metals			Batch ID: BC90092			Prepared: 02/25/2019 10:37			

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Wendy Lu, Laboratory Supervisor

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Analytical Results**Client Sample ID: SCS12-1****Laboratory Sample ID: 1902246-03 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90092		Prepared: 02/25/2019 10:37				
Antimony	1.23		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Arsenic	3.85		0.250	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Barium	132		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Cadmium	1.34		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Chromium	20.6		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Cobalt	9.34		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Copper	23.2		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Lead	66.4		0.250	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Nickel	14.2		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Selenium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Vanadium	37.6		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Zinc	137		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
STLC Metals			Batch ID: BC90090		Prepared: 02/27/2019 13:31				
Lead	1.60		0.500	mg/L	1	STLC	03/04/2019 11:05	LVE	STLC

Analytical Results**Client Sample ID: SCS14-1****Laboratory Sample ID: 1902246-04 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)			Batch ID: BC90091		Prepared: 03/01/2019 10:34				
Mercury	ND		0.0500	mg/kg	1	7471A	03/04/2019 10:35	LVE	7471A
Total ICP Metals			Batch ID: BC90092		Prepared: 02/25/2019 10:37				
Antimony	0.676		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Arsenic	5.00		0.250	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Barium	103		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Beryllium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Cadmium	1.31		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Chromium	18.8		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Cobalt	7.87		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Copper	20.3		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Lead	59.1		0.250	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Molybdenum	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Nickel	12.6		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B

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Wendy Lu, Laboratory Supervisor



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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Analytical Results

Client Sample ID: SCS14-1

Laboratory Sample ID: 1902246-04 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90092			Prepared: 02/25/2019 10:37			
Selenium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Silver	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Thallium	ND		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Vanadium	33.7		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
Zinc	140		0.500	mg/kg	1	3050B	02/25/2019 14:04	LVE	SW846 6010B
STLC Metals			Batch ID: BC90090			Prepared: 02/27/2019 13:31			
Lead	ND		0.500	mg/L	1	STLC	03/04/2019 11:05	LVE	STLC

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Wendy Lu, Laboratory Supervisor



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San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Total Mercury (CVAA) - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BC90091 - 7471A - 7471A

Blank (BC90091-BLK1)

Prepared: 03/01/201 Analyzed: 03/04/201

Mercury	ND	0.0500	mg/kg							
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LCS (BC90091-BS1)

Prepared: 03/01/201 Analyzed: 03/04/201

Mercury	99.3	50.0	mg/kg	100		99.3	80-120			
---------	------	------	-------	-----	--	------	--------	--	--	--

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Wendy Lu, Laboratory Supervisor



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San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BC90089 - 3050B - SW846 6010B

Blank (BC90089-BLK1)

Prepared: 02/27/201 Analyzed: 03/01/201

Lead	ND	0.250	mg/kg
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LCS (BC90089-BS1)

Prepared: 02/27/201 Analyzed: 03/01/201

Lead	100	0.500	mg/kg	100	100	80-120
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LCS Dup (BC90089-BSD1)

Prepared: 02/27/201 Analyzed: 03/01/201

Lead	99.5	0.500	mg/kg	100	99.5	80-120	0.452	20
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Batch BC90092 - 3050B - SW846 6010B

Blank (BC90092-BLK1)

Prepared & Analyzed: 02/25/201

Antimony	ND	0.500	mg/kg
Arsenic	ND	0.250	"
Barium	ND	0.500	"
Beryllium	ND	0.500	"
Cadmium	ND	0.500	"
Chromium	ND	0.500	"
Cobalt	ND	0.500	"
Copper	ND	0.500	"
Lead	ND	0.250	"
Molybdenum	ND	0.500	"
Nickel	ND	0.500	"
Selenium	ND	0.500	"
Silver	ND	0.500	"
Thallium	ND	0.500	"
Vanadium	ND	0.500	"
Zinc	ND	0.500	"

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Wendy Lu, Laboratory Supervisor



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San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BC90092 - 3050B - SW846 6010B

LCS (BC90092-BS1)

Prepared & Analyzed: 02/25/201

Antimony	101	1.00	mg/kg	100	101	80-120
Arsenic	100	0.500	"	100	100	80-120
Barium	101	1.00	"	100	101	80-120
Beryllium	107	1.00	"	100	107	80-120
Cadmium	99.6	1.00	"	100	99.6	80-120
Chromium	102	1.00	"	100	102	80-120
Cobalt	99.0	1.00	"	100	99.0	80-120
Copper	102	1.00	"	100	102	80-120
Lead	99.3	0.500	"	100	99.3	80-120
Molybdenum	98.8	1.00	"	100	98.8	80-120
Nickel	97.7	1.00	"	100	97.7	80-120
Selenium	97.8	1.00	"	100	97.8	80-120
Silver	100	1.00	"	100	100	80-120
Thallium	102	1.00	"	100	102	80-120
Vanadium	102	1.00	"	100	102	80-120
Zinc	102	1.00	"	100	102	80-120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Lu, Laboratory Supervisor



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SCS Engineers

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San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

STLC Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BC90090 - STLC - STLC

Blank (BC90090-BLK1)

Prepared: 02/27/201 Analyzed: 03/04/201

Lead ND 0.500 mg/L

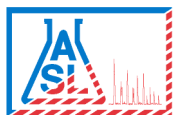
LCS (BC90090-BS1)

Prepared: 02/27/201 Analyzed: 03/04/201

Lead 110 5.00 mg/L 100 110 80-120

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Wendy Lu, Laboratory Supervisor



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Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1902246

Reported:

03/04/2019 13:58

Notes and Definitions

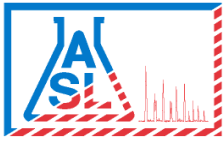
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the practical quantitation limit (PQL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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11 March 2019
Luke Montague
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Work Order #: 1903056

Project Name: BRIDGE

Project ID: BRIDGE

Site Address: 1500 E. Anaheim St. Long Beach

Enclosed are the results of analyses for samples received by the laboratory on March 07, 2019. If you have any questions concerning this report, please feel free to contact us.

Wendy Lu
Laboratory Supervisor

Rojert G. Araghi
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



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Environmental Testing Services
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COC# 83209

GLOBAL ID

REPORT: ☒ PDF ☐ EDF ☐ EDD

NEW JOB# 1903056
ASL JOB# 1902223

Company: SCS ENGINEERS				Report To:				ANALYSES REQUESTED				
Address: 8799 BARBOA AVE				Project Name: BRIDGE				Address: (8010B) 747				
SAN DIEGO, CA				Site Address: 1500 E ANAHEIM ST				LEAD (6010B)				
Telephone: 658 571-5500				LONG BEACH				VOCs (8260B)				
Fax:				Project ID: BRIDGE				TPHEX (8015M)				
Special Instruction:				Project Manager: LUKE MONTAGUE				O.P.#: 01211126.01				
E-mail: L.MONTAGUE@SCSENGINEERS.COM				Container(s)				Matrix				
LAB USE ONLY				SAMPLE DESCRIPTION				Preservation				
LAB ID				Sample ID				Type				
LAB ID				Date				Time				
LAB ID				#				Type				
1	19022223-01	SCS8-1	2/20/19	1052	1	ACETATE SLEEVE	SOIL	ICE	X	X	X	ARCHIVE
2	19022223-02	SCS8-3		1056					X	X	X	9-7-19 Asenetic (6010B)
3	19022223-03	SCS8-5		1057					X	X	X	Additional
4	19022223-04	SCS9-1		1118					X	X	X	1903056-01
5	19022223-05	SCS9-3		1117					X	X	X	1903056-02
6	19022223-06	SCS9-5		1120					X	X	X	1903056-03
7	19022223-07	SCS10-1		1109					X	X	X	1903056-04
8	19022223-08	SCS10-3		1108					X	X	X	1903056-05
9	19022223-09	SCS10-5		1110					X	X	X	1903056-06
10	19022223-10	SCS11-1		1155					X	X	X	1903056-07

Collected By:	Date	Time	Relinquished By:	Date	Time	Relinquished By:	Date	Time	Relinquished By:	Date	Time
SCS	2/20/19	1335	SCS	2/21/19	1445	SCS	2/25/19	9:45	SCS	2/25/19	9:45
Relinquished By:			Relinquished By:			Relinquished By:			Relinquished By:		
Received By:			Received By:			Received By:			Received By:		

Condition of Sample: 2 DAY



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Page 2 of 3

NEW JOB # 1993056
ASL JOB# 1902223

COC# N° 77692 GLOBAL ID

E REPORT: ☒ PDF ☐ EDF ☐ EDD

LAB USE ONLY				SAMPLE DESCRIPTION			Container(s)		Report To:		ANALYSIS REQUESTED							
I	T	E	M	Lab ID	Sample ID	Date	Time	#	Type	Matrix	Preservation	TPH EXT (8015M)	VOCs (8260B)	LEAD (6010B)	OCPS (8081)	METALS (6010B) 74 71A	Remarks	
8				1902223-08	SCS 11-3	2/20/19	1153	1	ACETATE SLEEVE	SOIL	ICE	X					3-7-19 Ausernic (6010B)	Acetate
					SCS 11-5		1157											
					SCS 11-8		1200											
					SCS 11-10		1200											
9				1902223-09	SCS 12-1		1132					X	X	X	X			1903056-05
10				1902223-10	SCS 12-3		1132					X						
					SCS 12-5		1136											
					SCS 12-8		1139											
					SCS 12-10		1139											
11				1902223-11	SCS 13-1		1224							X	X			1903056-06
Collected By: <i>[Signature]</i> Date 2/20/19 Time 1335										Relinquished By: <i>[Signature]</i> Date 2/21/19 Time 1445		TAT						
Relinquished By: <i>[Signature]</i> Date										Received For Laboratory		Date 2-25-19 Time 9:45		<input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush				
Received By: <i>[Signature]</i> Date										Condition of Sample:		2 DAY						

2520 N. San Fernando Road, L.A., CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# N° 77688 GLOBAL ID

E REPORT: ☒ PDF ☐ EDF ☐ EDD

ASL JOB# 1902723

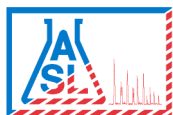
CHAIN OF CUSTODY RECORD

Company: SCS ENGINEERS						Report To:		ANALYSIS REQUESTED									
Address:		Project Name: BRIDGE		Address:													
Telephone:		Site Address:		Invoice To:													
Fax:		PAGE 1		Address:													
Special Instruction:		Project ID:		P.O.#:													
E-mail:		Project Manager:															
LAB USE ONLY		SAMPLE DESCRIPTION				Container(s)				Matrix		Preservation		Remarks			
I	T	E	M	Lab ID	Sample ID	Date	Time	#	Type								
12	1902223-12			SCS14-1	2/20/19	0922		1	ACETATE		SOIL	ICE		X X	New I.D.		
13	1902223-13			SCS15-1		0937		1						X X	190305C-07		

Relinquished By: [Signature] Date 2/21/19 Time 1445 TAT

Received For Laboratory: [Signature] Date 2/25/19 Time 9:45

Condition of Sample: [Signature]



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1903056

Reported:

03/11/2019 17:18

ANALYTICAL SUMMARY REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SCS8-1	1903056-01	Solid	02/20/2019 10:52	03/07/2019 11:04
SCS9-1	1903056-02	Solid	02/20/2019 11:18	03/07/2019 11:04
SCS10-3	1903056-03	Solid	02/20/2019 11:08	03/07/2019 11:04
SCS11-1	1903056-04	Solid	02/20/2019 11:55	03/07/2019 11:04
SCS12-1	1903056-05	Solid	02/20/2019 11:32	03/07/2019 11:04
SCS13-1	1903056-06	Solid	02/20/2019 12:24	03/07/2019 11:04
SCS14-1	1903056-07	Solid	02/20/2019 09:37	03/07/2019 11:04

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Lu, Laboratory Supervisor

**AMERICAN SCIENTIFIC LABORATORIES, LLC***Environmental Testing Services*

2520 N. San Fernando Road, LA CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego CA, 92123Project: BRIDGE
Project Number: BRIDGE
Project Manager: Luke MontagueWork Order No: 1903056
Reported:
03/11/2019 17:18**Analytical Results****Client Sample ID: SCS8-1****Laboratory Sample ID: 1903056-01 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90301		Prepared: 03/07/2019 15:50				
Arsenic	4.67		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B

Analytical Results**Client Sample ID: SCS9-1****Laboratory Sample ID: 1903056-02 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90301		Prepared: 03/07/2019 15:50				
Arsenic	7.41		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B

Analytical Results**Client Sample ID: SCS10-3****Laboratory Sample ID: 1903056-03 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90301		Prepared: 03/07/2019 15:50				
Arsenic	7.81		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B

Analytical Results**Client Sample ID: SCS11-1****Laboratory Sample ID: 1903056-04 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90301		Prepared: 03/07/2019 15:50				
Arsenic	3.07		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B

Analytical Results**Client Sample ID: SCS12-1****Laboratory Sample ID: 1903056-05 (Solid)**

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total ICP Metals			Batch ID: BC90301		Prepared: 03/07/2019 15:50				
Arsenic	4.41		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B

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SCS Engineers

8799 Balboa Avenue, Suite 290

San Diego CA, 92123

Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1903056

Reported:

03/11/2019 17:18

Analytical Results

Client Sample ID: SCS13-1

Laboratory Sample ID: 1903056-06 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
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Total ICP Metals

Batch ID: BC90301

Prepared: 03/07/2019 15:50

Arsenic	4.94		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B
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Analytical Results

Client Sample ID: SCS14-1

Laboratory Sample ID: 1903056-07 (Solid)

Analyte	Result	Notes	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
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Total ICP Metals

Batch ID: BC90301

Prepared: 03/07/2019 15:50

Arsenic	5.27		0.250	mg/kg	1	3050B	03/08/2019 12:35	LVE	SW846 6010B
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Wendy Lu, Laboratory Supervisor



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Environmental Testing Services

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8799 Balboa Avenue, Suite 290

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Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1903056

Reported:

03/11/2019 17:18

Total ICP Metals - Quality Control Report

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BC90301 - 3050B - SW846 6010B

Blank (BC90301-BLK1)

Prepared: 03/07/201 Analyzed: 03/08/201

Arsenic	ND	0.250	mg/kg							
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LCS (BC90301-BS1)

Prepared: 03/07/201 Analyzed: 03/08/201

Arsenic	100	0.500	mg/kg	100		100	80-120			
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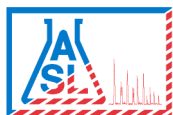
LCS Dup (BC90301-BSD1)

Prepared: 03/07/201 Analyzed: 03/08/201

Arsenic	100	0.500	mg/kg	100		100	80-120	0.0988	30	
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Lu, Laboratory Supervisor



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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Project: BRIDGE

Project Number: BRIDGE

Project Manager: Luke Montague

Work Order No: 1903056

Reported:

03/11/2019 17:18

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the practical quantitation limit (PQL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

26 February 2019

Mr. Luke Montague
SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

H&P Project: SCS022019-L3
Client Project: 01211126.01 / 1500 E Anaheim St.

Dear Mr. Luke Montague:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 20-Feb-19 which were analyzed in accordance with the attached Chain of Custody record(s).

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

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

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

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

Sincerely,



Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC). H&P is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.



SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-14-5	E902041-01	Vapor	20-Feb-19	20-Feb-19
SV-21-5	E902041-02	Vapor	20-Feb-19	20-Feb-19
SV-22-5	E902041-03	Vapor	20-Feb-19	20-Feb-19
SV-22-5 Rep	E902041-04	Vapor	20-Feb-19	20-Feb-19
SV-23-5	E902041-05	Vapor	20-Feb-19	20-Feb-19
SV-24-5	E902041-06	Vapor	20-Feb-19	20-Feb-19
SV-18-5	E902041-07	Vapor	20-Feb-19	20-Feb-19
SV-15-5	E902041-08	Vapor	20-Feb-19	20-Feb-19
SV-13-5	E902041-09	Vapor	20-Feb-19	20-Feb-19
SV-16-5	E902041-10	Vapor	20-Feb-19	20-Feb-19
SV-19-3	E902041-11	Vapor	20-Feb-19	20-Feb-19
SV-20-3	E902041-12	Vapor	20-Feb-19	20-Feb-19
SV-17-3	E902041-13	Vapor	20-Feb-19	20-Feb-19

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

DETECTIONS SUMMARY

Sample ID: **SV-14-5**

Laboratory ID: **E902041-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.03	0.02	ug/l	H&P 8260SV	
Tetrachloroethene	0.02	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-21-5**

Laboratory ID: **E902041-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.08	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-22-5**

Laboratory ID: **E902041-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.03	0.02	ug/l	H&P 8260SV	
m,p-Xylene	0.16	0.10	ug/l	H&P 8260SV	

Sample ID: **SV-22-5 Rep**

Laboratory ID: **E902041-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.03	0.02	ug/l	H&P 8260SV	
m,p-Xylene	0.23	0.10	ug/l	H&P 8260SV	

Sample ID: **SV-23-5**

Laboratory ID: **E902041-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-24-5**

Laboratory ID: **E902041-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.03	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-18-5**

Laboratory ID: **E902041-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	0.05	0.02	ug/l	H&P 8260SV	
Trichloroethene	0.04	0.02	ug/l	H&P 8260SV	
Tetrachloroethene	0.08	0.02	ug/l	H&P 8260SV	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Sample ID: **SV-15-5**

Laboratory ID: **E902041-08**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Benzene	0.02	0.02	ug/l	H&P 8260SV	
Tetrachloroethene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-13-5**

Laboratory ID: **E902041-09**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Benzene	0.06	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-16-5**

Laboratory ID: **E902041-10**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Benzene	0.02	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-19-3**

Laboratory ID: **E902041-11**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Benzene	0.05	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-20-3**

Laboratory ID: **E902041-12**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Benzene	0.04	0.02	ug/l	H&P 8260SV	

Sample ID: **SV-17-3**

Laboratory ID: **E902041-13**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Benzene	0.02	0.02	ug/l	H&P 8260SV	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-14-5 (E902041-01) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.03	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.02	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-14-5 (E902041-01) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		100 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		"	"	"	"	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-21-5 (E902041-02) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.08	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-21-5 (E902041-02) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.7 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	75-125		"	"	"	"	

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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-22-5 (E902041-03) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.03	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	0.16	0.10	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-22-5 (E902041-03) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		103 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		"	"	"	"	

SCS Engineers - San Diego
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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-22-5 Rep (E902041-04) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.03	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	0.23	0.10	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-22-5 Rep (E902041-04) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	

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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-23-5 (E902041-05) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.04	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-23-5 (E902041-05) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95.9 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		100 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-24-5 (E902041-06) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.03	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-24-5 (E902041-06) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		"	"	"	"	

SCS Engineers - San Diego
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Project: SCS022019-L3
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Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-18-5 (E902041-07) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.05	0.02	"	"	"	"	"	"	
Trichloroethene	0.04	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.08	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-18-5 (E902041-07) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		"	"	"	"	

SCS Engineers - San Diego
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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-15-5 (E902041-08) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.02	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	0.04	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-15-5 (E902041-08) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96.4 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		"	"	"	"	

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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-13-5 (E902041-09) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.06	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-13-5 (E902041-09) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	

SCS Engineers - San Diego
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Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-16-5 (E902041-10) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.02	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-16-5 (E902041-10) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.7 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		"	"	"	"	

SCS Engineers - San Diego
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Project: SCS022019-L3
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Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-19-3 (E902041-11) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.05	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Reported:
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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-19-3 (E902041-11) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.8 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		102 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		"	"	"	"	

SCS Engineers - San Diego
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Project: SCS022019-L3
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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-20-3 (E902041-12) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.04	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-20-3 (E902041-12) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		77.0 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		"	"	"	"	

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Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-17-3 (E902041-13) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Benzene	0.02	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-17-3 (E902041-13) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
o-Xylene	ND	0.10	ug/l	0.01	EB92020	20-Feb-19	20-Feb-19	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94.3 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		101 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		"	"	"	"	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB92020 - EPA 5030

Blank (EB92020-BLK1)

Prepared & Analyzed: 20-Feb-19

1,1-Difluoroethane (LCC)	ND	0.10	ug/l
Dichlorodifluoromethane (F12)	ND	0.10	"
Chloromethane	ND	0.10	"
Vinyl chloride	ND	0.01	"
Bromomethane	ND	0.10	"
Chloroethane	ND	0.10	"
Trichlorofluoromethane (F11)	ND	0.10	"
1,1-Dichloroethene	ND	0.10	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"
Methylene chloride (Dichloromethane)	ND	0.10	"
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"
trans-1,2-Dichloroethene	ND	0.10	"
1,1-Dichloroethane	ND	0.10	"
2,2-Dichloropropane	ND	0.10	"
cis-1,2-Dichloroethene	ND	0.10	"
Chloroform	ND	0.02	"
Bromochloromethane	ND	0.10	"
1,1,1-Trichloroethane	ND	0.10	"
1,1-Dichloropropene	ND	0.10	"
Carbon tetrachloride	ND	0.02	"
1,2-Dichloroethane (EDC)	ND	0.02	"
Benzene	ND	0.02	"
Trichloroethene	ND	0.02	"
1,2-Dichloropropane	ND	0.10	"
Bromodichloromethane	ND	0.10	"
Dibromomethane	ND	0.10	"
cis-1,3-Dichloropropene	ND	0.10	"
Toluene	ND	0.20	"
trans-1,3-Dichloropropene	ND	0.10	"
1,1,2-Trichloroethane	ND	0.10	"
1,2-Dibromoethane (EDB)	ND	0.10	"
1,3-Dichloropropane	ND	0.10	"
Tetrachloroethene	ND	0.02	"
Dibromochloromethane	ND	0.10	"

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB92020 - EPA 5030

Blank (EB92020-BLK1)

Prepared & Analyzed: 20-Feb-19

Chlorobenzene	ND	0.02	ug/l
Ethylbenzene	ND	0.10	"
1,1,1,2-Tetrachloroethane	ND	0.10	"
m,p-Xylene	ND	0.10	"
o-Xylene	ND	0.10	"
Styrene	ND	0.10	"
Bromoform	ND	0.10	"
Isopropylbenzene (Cumene)	ND	0.10	"
1,1,2,2-Tetrachloroethane	ND	0.10	"
1,2,3-Trichloropropane	ND	0.10	"
n-Propylbenzene	ND	0.10	"
Bromobenzene	ND	0.10	"
1,3,5-Trimethylbenzene	ND	0.10	"
2-Chlorotoluene	ND	0.10	"
4-Chlorotoluene	ND	0.10	"
tert-Butylbenzene	ND	0.10	"
1,2,4-Trimethylbenzene	ND	0.10	"
sec-Butylbenzene	ND	0.10	"
p-Isopropyltoluene	ND	0.10	"
1,3-Dichlorobenzene	ND	0.10	"
1,4-Dichlorobenzene	ND	0.10	"
n-Butylbenzene	ND	0.10	"
1,2-Dichlorobenzene	ND	0.10	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2,4-Trichlorobenzene	ND	0.10	"
Hexachlorobutadiene	ND	0.10	"
Naphthalene	ND	0.02	"
1,2,3-Trichlorobenzene	ND	0.10	"

Surrogate: Dibromofluoromethane	0.477	"	0.500	95.4	75-125
Surrogate: Toluene-d8	0.495	"	0.500	99.0	75-125
Surrogate: 4-Bromofluorobenzene	0.528	"	0.500	106	75-125

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB92020 - EPA 5030

LCS (EB92020-BS1)

Prepared & Analyzed: 20-Feb-19

Dichlorodifluoromethane (F12)	2.6	0.50	ug/l	5.00		52.1	70-130			QL-1L
Vinyl chloride	4.3	0.05	"	5.00		85.1	70-130			
Chloroethane	4.3	0.50	"	5.00		86.0	70-130			
Trichlorofluoromethane (F11)	4.7	0.50	"	5.00		93.8	70-130			
1,1-Dichloroethene	4.8	0.50	"	5.00		95.8	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.0	0.50	"	5.00		99.7	70-130			
Methylene chloride (Dichloromethane)	4.8	0.50	"	5.00		96.3	70-130			
trans-1,2-Dichloroethene	5.1	0.50	"	5.00		102	70-130			
1,1-Dichloroethane	5.1	0.50	"	5.00		101	70-130			
cis-1,2-Dichloroethene	5.5	0.50	"	5.00		110	70-130			
Chloroform	5.4	0.10	"	5.00		108	70-130			
1,1,1-Trichloroethane	5.2	0.50	"	5.00		105	70-130			
Carbon tetrachloride	5.8	0.10	"	5.00		116	70-130			
1,2-Dichloroethane (EDC)	6.0	0.10	"	5.00		121	70-130			
Benzene	5.4	0.10	"	5.00		108	70-130			
Trichloroethene	5.6	0.10	"	5.00		112	70-130			
Toluene	5.2	1.0	"	5.00		103	70-130			
1,1,2-Trichloroethane	6.2	0.50	"	5.00		123	70-130			
Tetrachloroethene	5.4	0.10	"	5.00		109	70-130			
Ethylbenzene	5.2	0.50	"	5.00		104	70-130			
1,1,1,2-Tetrachloroethane	5.8	0.50	"	5.00		117	70-130			
m,p-Xylene	11	0.50	"	10.0		106	70-130			
o-Xylene	5.2	0.50	"	5.00		104	70-130			
1,1,2,2-Tetrachloroethane	5.8	0.50	"	5.00		115	70-130			

Surrogate: Dibromofluoromethane	2.61		"	2.50		104	75-125			
Surrogate: Toluene-d8	2.58		"	2.50		103	75-125			
Surrogate: 4-Bromofluorobenzene	2.68		"	2.50		107	75-125			

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022019-L3
Project Number: 01211126.01 / 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 11:56

Notes and Definitions

QL-1L The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low.

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

VAPOR / AIR Chain of Custody

DATE: 2/20/19
Page 1 of 2

Lab Client and Project Information			
Lab Client/Consultant: <u>SCS Engineers</u>		Project Name / #: <u>01211126.01</u>	
Lab Client Project Manager: <u>Luke Montague</u>		Project Location: <u>1500 E. Anaheim St.</u>	
Lab Client Address: <u>8799 Balboa Ave. Ste #290</u>		Report E-Mail(s): <u>lmontague@scsengineers.com</u>	
Lab Client City, State, Zip: <u>San Diego, CA 92123</u>		<u>ltimeno@</u>	
Phone Number: <u>(858) 571-5800</u>			
Reporting Requirements		Turnaround Time	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____		<input type="checkbox"/> 5-7 day Stnd <input type="checkbox"/> 24-Hr Rush <input type="checkbox"/> 3-day Rush <input checked="" type="checkbox"/> Mobile Lab <input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	
Sampler Information		Sampler(s): <u>N. Swojda</u>	
		Signature: <u>[Signature]</u>	
		Date: <u>2/20/19</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>2/20/19</u>	Control #: <u>190146.01</u>
H&P Project # <u>SCS022019-L3</u>	
Lab Work Order # <u>E902041</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: _____	Temp: <u>23°</u>
Outside Lab: _____	
Receipt Notes/Tracking #: _____	
Lab PM Initials: _____	

Additional Instructions to Laboratory:

* Preferred VOC units (please choose one):

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

Batch: EB2020

ULRLe

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945
								<input checked="" type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15							
SV-14-5		02/20/19	1032	SV	SV	240/242		<input checked="" type="checkbox"/>										
SV-21-5			1132		Glass Syr.	175/225												
SV-22-5			1211			280/267												
SV-22-5 Rep			1233			291/242												
SV-23-5			1330			240/175												
SV-24-5			1345			280/267												
SV-18-5			1400			291/242												
SV-15-5			1419			175/240												
SV-13-5			1436			225/267												
SV-16-5			1456			242/280												

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>SCS</u>	Date: <u>2/20/19</u>	Time: <u>1645</u>	Received by: <u>Nicole Swojda</u>	Company: <u>H&P</u>	Date: <u>2/20/19</u>	Time: <u>1645</u>
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____

Lab Client and Project Information		
Lab Client/Consultant: SCS Engineers	Project Name / #: 0121126.01	
Lab Client Project Manager: Luke Montague	Project Location: 1500 E. Anaheim St.	
Lab Client Address: 8799 Balboa Ave # 290	Report E-Mail(s): lmontague@scsengineers.com	
Lab Client City, State, Zip: San Diego, CA 92123	l.jimeno@~	
Phone Number: (858) 571-5500		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____	<input type="checkbox"/> 5-7 day Std <input type="checkbox"/> 24-Hr Rush <input type="checkbox"/> 3-day Rush <input checked="" type="checkbox"/> Mobile Lab <input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	Sampler(s): Nicole Srobona Signature: _____ Date: 2/20/19

Sample Receipt (Lab Use Only)	
Date Rec'd: 2/20/19	Control #: 100146.01
H&P Project # SC8022019-L3	
Lab Work Order # E902041	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID:	Temp: 23°
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

[illegible]

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS022019-L3
Site Address: 1500 E. Anaheim St.
Consultant: SCS Engineers
Consultant Rep(s): Ian Jimeno

Date: 2/20/19
Page: 1 of 2
H&P Rep(s): N. Swoboda, K. Schindler
J. Vandervaal

Reviewed: DB
Scanned: YSE

Equipment Info	Purge Volume Information	Leak Check Compound	Resample Key
Inline Gauge ID#: <u>015</u> Pump ID#: <u>T06</u>	PV Amount: <u>3PV</u> PV Includes: <input checked="" type="checkbox"/> Tubing <input checked="" type="checkbox"/> Sand 40% <input type="checkbox"/> Dry Bent 50%	<input checked="" type="checkbox"/> 1,1-DFA <input type="checkbox"/> 1,1,1,2-TFA <input type="checkbox"/> IPA <input type="checkbox"/> Other: A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.	RS = Resample RD = for Dilution RL = for LCC Fail

Sample Information				Probe Specs								Purge & Collection Information						
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	Probe Vac <div><input type="checkbox"/> Hg <input checked="" type="checkbox"/> H₂O</div>	
1	SV-14-5	240/242	100	1032	5	7	1/8	12	1.5	6	1.5	✓	✓	697	1200	3:29	1200	Ø
2	SV-21-5	175/225	100	1132	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1100	2:20	1100	-90"
3	SV-20-5	280/267									✓	✓					100"	
4	SV-19-5										✓	✓					100"	
5	SV-22-5	280/267	100	1211	5	7	1/8	12	1.5	6	1.5	✓	✓	697	1200	3:29	1200	Ø
6	SV-22-5 Rep	240/242	100	1233	"	"	"	"	"	"	✓	✓	797	1200		1200	Ø	
7	SV-23-5	240/175	100	1330	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1100	2:20	1100	-99"
8	SV-24-5	280/267	100	1345	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1100	2:20	1100	-10"
9	SV-18-5	240/242	100	1400	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1200		1200	2" Hg
10	SV-15-5	175/240	100	1419	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1200		1200	2" Hg
11	SV-13-5	225/267	100	1436	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1200		1200	2" Hg
12	SV-16-5	242/280	100	1456	5	7	1/8	12	1.5	6	1.5	✓	✓	232	1200		1200	Ø" Hg

- Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
- ① ② High vac, low flow. 1PV OK percent. allowed vac to dissipate before collecting sample.
 - ④ ③ High vac. Vac rose to 100" and did not dissipate. No sample.

* w/1345 Client approve 1 PV for remaining probes

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS022019-L3 Date: 2/20/19
 Site Address: 1500 E. Anaheim St. Page: 2 of 2
 Consultant: SCS Engineers H&P Rep(s): N. Swabder, K. Schindler Reviewed: DB
 Consultant Rep(s): Tan Jimeno J. Vanderwal Scanned: yse

Equipment Info Inline Gauge ID#: <u>T00</u> Pump ID#:	Purge Volume Information PV Amount: <u>1 PV</u> PV Includes: <input checked="" type="checkbox"/> Tubing <input checked="" type="checkbox"/> Sand 40% <input checked="" type="checkbox"/> Dry Bent 50%	Leak Check Compound <input checked="" type="checkbox"/> 1,1-DFA <input type="checkbox"/> 1,1,1,2-TFA <input type="checkbox"/> IPA <input type="checkbox"/> Other: <small>A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.</small>	Resample Key RS = Resample RD = for Dilution RL = for LCC Fail
--	--	---	--

Sample Information				Probe Specs								Purge & Collection Information						
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac <input checked="" type="checkbox"/> Hg <input type="checkbox"/> H ₂ O	
1	SV-19-3	75/240	100	1529	12	5	1/8	12	1.5	6	1.5	✓	✓	231	4200		4200	2" Hg
2	Sv-20-3	267/225	100	1548	B	5	1/8	12	1.5	6	1.5	✓	✓	231	4200		4200	0 Hg
3	SV-17-3	280/241	100	1607	3	5	1/8	12	1.5	6	1.5	✓	✓	231	4200		4200	0 Hg
4	SV-19-3 RS	292/240	100	1625	3	5	1/8	12	1.5	6	1.5	✓	✓	836	4200		4200	0 Hg
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

④ RS for lab; prove matrix interference. 231 + 100 + 5 = 336

26 February 2019

Mr. Luke Montague
SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

H&P Project: SCS022119-10
Client Project: 01211126.01/ Bridge, 1500 E Anaheim St.

Dear Mr. Luke Montague:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 20-Feb-19 which were analyzed in accordance with the attached Chain of Custody record(s).

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

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

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

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

Sincerely,



Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC). H&P is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.



SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022119-10
Project Number: 01211126.01/ Bridge, 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 12:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV14-5	E902052-01	Vapor	20-Feb-19	20-Feb-19
SV21-5	E902052-02	Vapor	20-Feb-19	20-Feb-19

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022119-10
Project Number: 01211126.01/ Bridge, 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 12:21

Soil Vapor/Air Analysis by ASTM D1945

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV14-5 (E902052-01) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
Oxygen	7.8	0.20	%	1	EB92106	21-Feb-19	21-Feb-19	ASTM D1945	
SV21-5 (E902052-02) Vapor Sampled: 20-Feb-19 Received: 20-Feb-19									
Oxygen	15	0.20	%	1	EB92106	21-Feb-19	21-Feb-19	ASTM D1945	

SCS Engineers - San Diego 8799 Balboa Avenue, Suite 290 San Diego, CA 92123	Project: SCS022119-10 Project Number: 01211126.01/ Bridge, 1500 E Anaheim St. Project Manager: Mr. Luke Montague	Reported: 26-Feb-19 12:21
---	--	------------------------------

Soil Vapor/Air Analysis by ASTM D1945 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EB92106 - GC

Blank (EB92106-BLK1)	Prepared & Analyzed: 21-Feb-19									
Oxygen	20	0.20	%							BLK

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS022119-10
Project Number: 01211126.01/ Bridge, 1500 E Anaheim St.
Project Manager: Mr. Luke Montague

Reported:
26-Feb-19 12:21

Notes and Definitions

BLK The Oxygen content in a Fixed Gas Method Blank is between 18-24%.

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

All soil results are reported in wet weight.

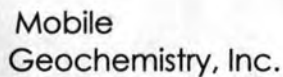
Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.



2470 Impala Drive, Carlsbad, CA 92010
 & Field Office - Signal Hill, CA
 W handpmsg.com E info@handpmsg.com
 P 760.804.9678 F 760.804.9159

DATE: 2/20/19
Page 1 of 1

Lab Client and Project Information			
Lab Client/Consultant: <u>SCS ENGINEERS</u>		Project Name / #: <u>BRIDGE 0121126.01</u>	
Lab Client Project Manager: <u>LUKE MONTAGUE</u>		Project Location: <u>1500 E ANAHEIM ST.</u>	
Lab Client Address: <u>8799 BALBOA AVE</u>		Report E-Mail(s): <u>LMONTAGUE@SCS ENGINEERS.COM</u> <u>ijimmo</u>	
Lab Client City, State, Zip: <u>SAN DIEGO, CA 92123</u>			
Phone Number: <u>858 571-5500</u>			
Reporting Requirements		Turnaround Time	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____		<input checked="" type="checkbox"/> 5-7 day Std <input type="checkbox"/> 24-Hr Rush <input checked="" type="checkbox"/> 3-day Rush <input type="checkbox"/> Mobile Lab <input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	
		Sampler Information	
		Sampler(s): <u>J.C. Schuch</u>	
		Signature: <u>[Signature]</u>	
		Date: <u>2/26/2019</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: 2/21/19	Control #: 190146.02
H&P Project # SC5022119-10	
Lab Work Order # E902052	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID:	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
<div style="text-align: right;"> <i>wa for</i> Lab PM Initials: <i>KB</i> </div>	

[illegible]

Log Sheet: Soil Vapor Sampling with Summa

TECm

H&P Project #: SCS022019-SPE1TEC14
Site Address: 1500 E. Ascheim, Long Beach
Consultant: SCS
Consultant Rep(s): Tan

Date: 2/20/2019
Page: of
H&P Rep(s): K. Schindler

Reviewed: DR
Scanned: [Signature]

Equipment Info
Inline Gauge ID#: 711
Pump ID#: -

Purge Volume Information
PV Amount: 3PV PV Includes: ☒ Tubing
☒ Sand 40%
☒ Dry Bent 50%

Leak Check Compound ☐ 1,1-DFA
☐ 1,1,1,2-TFA
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted. ☐ IPA
☒ Other: none

Sample and Summa Information							Probe Specs							Purge & Collection Information						
Point ID	Summa ID #	Sample Kit ID #	Start Time	Initial Vac (" Hg)	End / Sample Time	End Vac (" Hg)	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac <input checked="" type="checkbox"/> Hg <input type="checkbox"/> H ₂ O
1	SV-14-5	TEL14			1302 1302		5	7	1/8	12	1.5	0	1.5	✓	✓	797	200	-	200	0
2	SV-21-5	TEL21			1357		5	7	1/8	12	1.5	0	1.5	✓	✓	332	200	-	200	-6.0 200
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

3 PV
1 PV

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

	A	B
1	Dieldrin	d_Dieldrin
2	4	1
3	4	1
4	4	1
5	4	1
6	4	1
7	35	1
8	7.6	1
9	4	1

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.13/1/2019 12:41:36 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	Dieldrin											
12												
13	General Statistics											
14	Total Number of Observations				8		Number of Distinct Observations				3	
15							Number of Missing Observations				0	
16	Minimum				4		Mean				8.325	
17	Maximum				35		Median				4	
18	SD				10.85		Std. Error of Mean				3.837	
19	Coefficient of Variation				1.304		Skewness				2.757	
20												
21	Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use											
22	guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.											
23	For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).											
24	Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1											
25												
26	Normal GOF Test											
27	Shapiro Wilk Test Statistic				0.48		Shapiro Wilk GOF Test					
28	5% Shapiro Wilk Critical Value				0.818		Data Not Normal at 5% Significance Level					
29	Lilliefors Test Statistic				0.405		Lilliefors GOF Test					
30	5% Lilliefors Critical Value				0.283		Data Not Normal at 5% Significance Level					
31	Data Not Normal at 5% Significance Level											
32												
33	Assuming Normal Distribution											
34	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
35	95% Student's-t UCL				15.59		95% Adjusted-CLT UCL (Chen-1995)				18.63	
36							95% Modified-t UCL (Johnson-1978)				16.22	
37												
38	Gamma GOF Test											
39	A-D Test Statistic				1.935		Anderson-Darling Gamma GOF Test					
40	5% A-D Critical Value				0.729		Data Not Gamma Distributed at 5% Significance Level					
41	K-S Test Statistic				0.44		Kolmogorov-Smirnov Gamma GOF Test					
42	5% K-S Critical Value				0.299		Data Not Gamma Distributed at 5% Significance Level					
43	Data Not Gamma Distributed at 5% Significance Level											
44												
45	Gamma Statistics											
46	k hat (MLE)				1.454		k star (bias corrected MLE)				0.992	
47	Theta hat (MLE)				5.724		Theta star (bias corrected MLE)				8.389	
48	nu hat (MLE)				23.27		nu star (bias corrected)				15.88	
49	MLE Mean (bias corrected)				8.325		MLE Sd (bias corrected)				8.357	
50							Approximate Chi Square Value (0.05)				7.876	

	A	B	C	D	E	F	G	H	I	J	K	L
51	Adjusted Level of Significance					0.0195	Adjusted Chi Square Value					6.503
52												
53	Assuming Gamma Distribution											
54	95% Approximate Gamma UCL (use when n>=50))					16.78	95% Adjusted Gamma UCL (use when n<50)					20.33
55												
56	Lognormal GOF Test											
57	Shapiro Wilk Test Statistic					0.556	Shapiro Wilk Lognormal GOF Test					
58	5% Shapiro Wilk Critical Value					0.818	Data Not Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic					0.426	Lilliefors Lognormal GOF Test					
60	5% Lilliefors Critical Value					0.283	Data Not Lognormal at 5% Significance Level					
61	Data Not Lognormal at 5% Significance Level											
62												
63	Lognormal Statistics											
64	Minimum of Logged Data					1.386	Mean of logged Data					1.738
65	Maximum of Logged Data					3.555	SD of logged Data					0.768
66												
67	Assuming Lognormal Distribution											
68	95% H-UCL					17.62	90% Chebyshev (MVUE) UCL					13.37
69	95% Chebyshev (MVUE) UCL					16.11	97.5% Chebyshev (MVUE) UCL					19.92
70	99% Chebyshev (MVUE) UCL					27.4						
71												
72	Nonparametric Distribution Free UCL Statistics											
73	Data do not follow a Discernible Distribution (0.05)											
74												
75	Nonparametric Distribution Free UCLs											
76	95% CLT UCL					14.64	95% Jackknife UCL					15.59
77	95% Standard Bootstrap UCL					N/A	95% Bootstrap-t UCL					N/A
78	95% Hall's Bootstrap UCL					N/A	95% Percentile Bootstrap UCL					N/A
79	95% BCA Bootstrap UCL					N/A						
80	90% Chebyshev(Mean, Sd) UCL					19.83	95% Chebyshev(Mean, Sd) UCL					25.05
81	97.5% Chebyshev(Mean, Sd) UCL					32.28	99% Chebyshev(Mean, Sd) UCL					46.5
82												
83	Suggested UCL to Use											
84	95% Chebyshev (Mean, Sd) UCL					25.05						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	Recommendations are based upon data size, data distribution, and skewness.											
88	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
89	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
90												