APPENDIX D

Environmental Site Assessments

PHASE II SITE INVESTIGATION REPORT
MESA INDUSTRIES
1726 SOUTH MAGNOLIA AVENUE
MONROVIA, CALIFORNIA 91016
(ASSESSOR'S PARCEL NUMBER: 8507-003-051)

Prepared for:

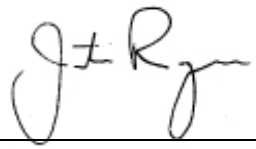
Mesa Industries, Inc.
4141 Airport Road
Cincinnati, Ohio 45226
(516) 321-4511

Prepared by:

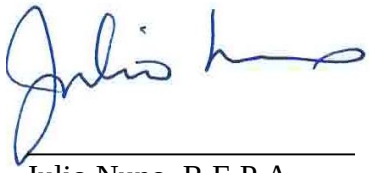
SCS ENGINEERS
3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816
(562) 426-9544

May 18, 2016
File No. 01215043.01

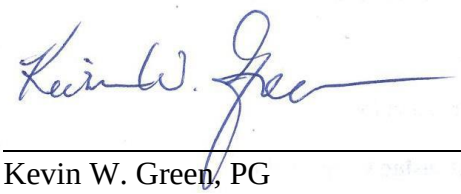
This Phase II Investigation Report dated May 18, 2016, for the Mesa Industries, Inc. facility located at 1726 South Magnolia Avenue, Monrovia, California, was prepared by Justin Rauzon and reviewed by Julio Nuno and Kevin Green.



Justin Rauzon
Senior Project Scientist
SCS ENGINEERS



Julio Nuno, R.E.P.A.
Project Director
SCS ENGINEERS



Kevin W. Green, PG
Senior Project Advisor
SCS ENGINEERS

Table of Contents

List of Figures, Tables, and Appendices

Figures

Tables

Appendices

DISCLAIMER

This report has been prepared for Mesa Industries, Inc. with specific application to a Phase II soil investigation at 1726 South Magnolia Avenue, Monrovia, California.

The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, express or implied, is made as to the professional opinions presented herein. No other party, known or unknown to SCS Engineers, is intended as a beneficiary of this work product, its content or information embedded therein. Third parties use this report at their own risk.

Changes in site conditions may occur due to variation in rainfall, temperature, water usage, or other factors. Additional information that was not available to the consultant at the time of this investigation or changes that may occur on the site or in the surrounding area may result in modification to the site that would impact the summary and recommendations presented herein. This report is not a legal opinion.

1 INTRODUCTION

SCS Engineers (SCS) was retained by Mesa Industries, Inc. (Mesa Industries) to conduct a Phase II soil and soil vapor investigation at 1726 South Magnolia Avenue, Monrovia, California (the "Property"). Investigation activities were conducted in accordance with SCS' revised proposal dated April 18, 2016 (Proposal No. 010316216r). The Phase II proposal was based on the findings of a Phase I Environmental Site Assessment (Phase I ESA) prepared by SCS (SCS Project No. 01215043.00, March 10, 2015). A location map for the Property is presented as **Figure 1**.

BACKGROUND

The Property is located at 1726 South Magnolia Avenue on the eastern side of the street, at the intersection with Genoa Street. It is located immediately to the south of the extension of the Metrolink Gold Line. The Property is approximately 0.97 acres and is currently developed with an irregularly-shaped industrial building. The building is situated in the northern half of the Property and an asphalt-paved parking and material storage yard is located on the southern half of the Property.

Mesa Industries currently owns the Property, where it operates an industrial hose assembly plant and distribution center. In the Phase I ESA report, SCS identified the following recognized environmental conditions (RECs):

- Circular drum rings etched into the concrete and a concrete-patched drain were observed inside the southwestern part of the building. According to site employees, the etched drum rings were caused by a previous tenant, which may have cleaned drums at the facility. No detailed information about the types of chemicals the previous tenant had stored in drums was available, since Mesa Industries has occupied the building since the 1960s. A circular concrete patch possibly indicative of a past soil investigation was noted near the patched drain. Based on the condition of the concrete and the presence of the patched floor drain, these areas are considered RECs.

- A large, irregular patch of asphalt was observed to the south of the main building. The site contacts did not know the reason for the large patch, but did say they thought the previous tenant had an underground storage tank (UST) that had been removed from an area near the loading dock on the southwestern side of the building. The presence of unexplained patched asphalt and indications that there were previously fuel USTs on the Property constitute a REC.

- The historical record review identified two USTs installed at the Property in 1955 and one additional UST installed in 1975. This assessment did not uncover any records of the removal of USTs from the Property. Site employees recalled that an UST was removed in the past from the area near the loading dock. Underground fuel storage tanks are a very common source of contaminant releases. The known presence of at least three USTs installed at the Property in 1955 and 1975, and the absence of information about their removal or any associated soil testing, constitutes a REC.

In light of the limited information about at least three USTs likely installed at the Property in 1955 and 1975, and limited information about types of chemicals used and handled by a previous tenant, SCS recommended additional investigation.

2 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

PHYSIOGRAPHIC SETTING

The Property is located in the San Gabriel Valley, to the south of the San Gabriel Mountains, north of Puente Hills, and east of the City of Los Angeles. According to the U.S. Geological Survey (USGS), Mount Wilson (1966, photorevised 1995), California 7.5-minute topographic map, the Property is located at an elevation of approximately 435 feet above mean sea level, approximately two miles to the south of the San Gabriel Mountain foothills. The Property is situated approximately 0.55 miles to the east of the Santa Anita Wash. It appeared to have been graded relatively flat, but there is a regional slope to the south.

GEOLOGY AND SOILS

According to information gathered from the California State Water Resources Control Board's (SWRCB) GeoTracker website for nearby sites, subsurface soils in the area of the Property consist of silty sands, sandy silts, and gravely-sand-silt mixtures to depths of 200+ feet below ground surface (bgs). Significant gravel layers were observed during past investigations at nearby sites from 60 to 100 and 160 to 200 feet bgs. During this Phase II site investigation, soils observed from 0 to 20 feet bgs at the Property consisted of sandy silt, silt, clayey silt, sometimes with less than 5% gravel.

GROUNDWATER

The Property is situated within the Los Angeles River Hydrologic Unit of the Los Angeles Groundwater Basin. According to groundwater monitoring reports for the Pacific Atlas Oil (Arco) site located approximately 0.15 miles to the east of the Property (1601 South Myrtle Avenue, GeoTracker ID: T0603705521), the depth to groundwater has been measured between 201 and 238.67 feet bgs during semiannual monitoring of three wells between 2006 and 2012. In 2007, groundwater flow direction at the Arco site was determined to be towards the northwest. While natural groundwater flow direction would likely be towards the south-southwest, towards the Santa Anita Wash, local flow direction may vary due to groundwater pumping. Groundwater was not encountered at borings to 20 feet during the current Phase II investigation.

3 SITE INVESTIGATION AND ANALYTICAL RESULTS

The objective of the Phase II investigation was to evaluate the possible release of hazardous substances at the Property resulting from the RECs identified during the Phase I ESA. Investigation activities were conducted on May 3 and 4, 2016.

GEOPHYSICAL SURVEY

As required by law, SCS contacted Underground Service Alert prior to conducting any subsurface work (Dig Alert No. B61190031). SCS contracted with ULS Services Corporation (ULS) of Santee, California to clear the proposed boring locations to avoid any subsurface utilities during drilling activities.

SCS also contracted with ULS to investigate the possible continued presence of USTs at the Property and/or identify areas where the USTs might have been located. ULS employed visual inspection of valves, meters, conduits, trenching seams, and vault lids; electromagnetic pipe and cable locator; electromagnetic induction metal detector; and ground penetrating radar (GPR) during the geophysical survey. The geophysical survey initially focused on the irregular asphalt patch and the suspected former UST areas outside the southwestern side of the building, near the loading dock area. ULS identified evidence of a natural gas line and the condensate drain line extending from the boiler system to the storm or sanitary sewer along Magnolia Avenue to the west of the Property. ULS also reported a possible vent line extending from the irregular asphalt patch towards the southern side of the building. No parabolic response indicative of the presence of a UST or distinct soil disturbance was noted. At SCS' request, ULS continued the GPR investigation of the remaining asphalt-paved area to the south of the buildings, with no indication of current/former USTs. A copy of the ULS report is provided as **Appendix A**.

SOIL VAPOR SAMPLING AND ANALYSIS

Under the direction of SCS, H&P Mobile Geochemistry Inc. (H&P) of Carlsbad, California installed soil vapor probes at 12 boring locations (SV1 through SV12). The soil vapor boring locations are shown on **Figure 2**. Temporary soil vapor probes were installed at each of these locations at a depth of five feet bgs. At three locations (SV2, SV7, and SV10), a temporary probe was also installed 15 feet bgs.

Soil vapor probes were installed using a truck-mounted or a limited-access direct-push drill rig. Stainless steel rods were advanced to the target depth. The steel rods were retracted from each boring and new (clean) 1/8-inch diameter Nylaflow tubing, with a polypropylene filter placed on the bottom end, was inserted to the desired depth. Clean #2/12 Monterey sand was placed in a 6-inch vertical interval around each filter. A bentonite seal was placed above the sand pack for each probe. The remaining annular space was then backfilled with bentonite and hydrated.

Sampling was conducted in general accordance with the *Advisory – Active Soil Gas Investigations,* published by the Regional Water Quality Control Board and Department of Toxic Substance Control in April 2012. Following a minimum of two hours after being set, the probes were purged to remove ambient air from the sampling system and ensure that the collected soil vapor sample was representative of soil conditions. Prior to collecting samples into glass syringes, a leak-check compound (1,1-difluoroethane [1,1-DFA]) was exposed at the surface.

A total of 16 soil vapor samples (including one replicate sample) were collected and analyzed for volatile organic compounds (VOCs) using Method H&P 8260SV, a modified version of EPA Method 8260B, in an on-site mobile laboratory provided by H&P. H&P is certified by the California Department of Health Services to conduct the specified analysis. Chain-of-custody

documentation was completed in order to accurately track the samples from the point of collection through analysis.

After all samples had been collected and the soil vapor analysis completed, the probes were removed. Soil vapor probe locations were backfilled with bentonite and patched to match the surrounding surface. No soil cuttings or water requiring disposal were generated during the soil vapor assessment activities.

Soil Vapor Analytical Results

The H&P laboratory report, chain-of-custody documentation and quality assurance/control (QA/QC) data are included as **Appendix C**.

Leak-check compound was not detected in any of the analyzed samples. Analytical results of soil vapor samples are summarized in **Table 1**. As shown, tetrachloroethene (PCE) was detected in 12 of 16 soil vapor samples analyzed. The detected PCE concentrations ranged from 0.09 to 0.36 micrograms per liter (µg/L). No other VOCs were detected at concentrations equal to, or above, the laboratory reporting limit. PCE concentrations are also shown on **Figure 2**.

SOIL SAMPLING AND ANALYSIS

Under the direction of SCS, H&P also conducted soil sampling using a truck-mounted and limited-access direct-push drill rigs. The soil boring locations are shown on **Figure 3**. A total of nine soil borings (SB1 through SB9) were drilled at the Property, as follows:

- Soil borings SB1 and SB2 were located inside the southwestern portion of the building, in the area where circular drum rings were etched into the concrete and a patched floor drain was observed during the Phase I ESA. The concrete at these locations was cored and soil samples were collected 1, 5, and 10 feet bgs.

- Soil borings SB3, SB4, and SB5 were located within the irregular asphalt patch on the south-central side of the Property. The possible vent line identified by ULS using GPR ended near the northeastern part of the patched asphalt, near soil boring SB3 and soil vapor boring SV10. Based on information obtained from site employees interviewed during the Phase I ESA who reported that a UST was likely removed in the past from near the loading dock, borings SB6 and SB7 were located between the patched asphalt and the loading dock at the southwestern portion of the building. Since no obvious indications of current/former USTs was identified with GPR, SCS directed H&P to drill two additional borings (SB8 and SB9) on the southeastern quadrant of the Property, to expand coverage of the area investigated. Soil samples were collected at each of these locations from depths of 1, 5, 10, 15, and 20 feet bgs.

Samples were recovered from the subsurface in new acetate sample sleeves that had been placed within the direct-push sampling rods. All samples were prepared in the field for analysis of VOCs using EPA Method 5035, which includes the collection of four 5-gram aliquots of soil from each soil sample using a plunger/sub-sampler provided by the laboratory. The four aliquots of soil were immediately placed in 40 milliliter VOA (volatile organic analysis) vials as follows

– two aliquots in VOAs with a sodium bisulfate preservative, one in a methanol preservative, and one in a blank (empty) VOA.

A portion of each sample sleeve was observed for soil classification and to screen samples for indications of potential contamination, such as discoloration and odor. A portion of each sample was also placed in a Ziploc bag and screened in the field for the presence of VOCs using a MiniRae photoionization detector (PID). Boring logs recording the lithology observed are provided in **Appendix B**. No obvious signs of contamination (e.g., discoloration, odors, debris, elevated PID readings, etc.) were noted in any of the soil samples. The samples were placed in a chilled ice-chest for transport to Chemtek Environmental Laboratories Inc. (Chemtek), of Santa Fe Springs, California. After soil sample collection, the borings were backfilled with hydrated bentonite and the surface was patched with asphalt to match the surrounding surface material.

A total of 41 soil samples were collected from the soil borings described above. Twenty-six of these soil samples were selectively analyzed for total petroleum hydrocarbons (TPH – carbon chain analysis) using EPA Method 8015M, Title 22 metals using EPA Method 6010B/7471A, and VOCs using EPA Method 8260B. Chemtek is a certified by the California Department of Health Services to conduct the specified analyses. Samples were tracked from the point of collection through the laboratory using proper chain-of-custody protocol. No soil cuttings or water requiring disposal were generated during the soil assessment activities.

Soil Analytical Results

The Chemtek laboratory reports, including chain-of-custody forms and quality assurance/quality control (QA/QC) data, are provided in **Appendix C**.

Acetone, a common laboratory contaminant, was detected in eight of 14 samples selected for VOC analysis at concentrations ranging from 51 to 74 micrograms per kilogram (µg/kg). No other VOCs were detected at concentrations equal to, or above, the laboratory reporting limits.

TPH (gasoline-, diesel-, and oil-range) was not detected in any of the 17 samples selected for TPH analysis.

Eleven samples were analyzed for Title 22 metals. Metals concentrations are summarized in **Table 2**. Antimony, arsenic, beryllium, cadmium, mercury, molybdenum, selenium, silver, and thallium were not detected in any of the samples. Barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were detected at, or below, concentrations typically found in California soils.

4 DISCUSSION OF ANALYTICAL RESULTS AND REGULATORY LIMITS

VOCS IN SOIL VAPOR

The California Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO) has issued Human Health Risk Assessment Note Number 3 (Note No. 3), most recently revised in March 2016. HERO Note No. 3 describes DTSC-recommended screening levels (DTSC-Recommended SLs) for use in evaluating human health risks associated with

exposure to approximately 800 chemicals in soil, tap water, and air at California sites and facilities. Note No. 3 recommends the use of the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs; most recently updated in November 2015), except in cases where DTSC has calculated a more stringent screening level or recommended using another screening level (e.g. California Human Health Screening Level [CHHSL]).

Note No. 3 makes recommendations regarding the methodology and use of DTSC-Recommended SLs for soil vapor screening under residential and commercial/industrial land use scenarios. The DTSC-Recommended SLs for soil vapor are intended to supersede the Office of Environmental Health Hazard Assessment (OEHHA) CHHSLs, which are no longer updated by OEHHA or supported by DTSC.

The DTSC-Recommended SLs for evaluating soil vapor intrusion are calculated using indoor air screening levels and recommended attenuation factors. These calculated soil vapor screening levels are for samples collected near the source area either for existing buildings or future buildings (DTSC and CalEPA, October 2011). The term "near the source area" is considered to be at or just above the contaminant source, generally no more than five feet beneath a building foundation. The values calculated using Note No. 3 recommendations are conservative. Chemical concentrations in excess of the calculated DTSC-Recommended SLs are not conclusive evidence of adverse risks to human health. Additional investigation – such as sub-slab sampling, indoor air assessments, site-specific health risk assessments, etc. – may be warranted to further assess site-specific health risks.

The soil vapor results from this investigation are compared to the DTSC-Recommended SL for PCE at residential and commercial/industrial sites in **Table 1**. Note that the commercial/industrial DTSC-Recommended SL for PCE on the table corresponds to the value for an existing commercial/industrial building, since the Property is currently a developed industrial site. Since any residential building constructed on the Property would result from site redevelopment, the residential DTSC-Recommended SL for PCE to which the PCE concentrations detected are compared in the table is the value for a future residential land use scenario.

As shown in the table, all PCE concentrations were below both the residential and commercial/industrial DTSC-Recommended SLs. Based on the available information, the VOC concentrations in soil vapor at the Property are not indicative of a significant release and would not be a concern to a regulatory agency.

TPH AND VOCS IN SOIL

There are no universal cleanup guidelines for TPH- and/or VOC-contaminated soils in California. Cleanup levels can vary based on a number of factors including the nature of the contamination, depth to groundwater, the beneficial uses of groundwater, soil type, human health risks (i.e., land use, residential vs. commercial/industrial scenarios), and regulatory oversight agency requirements. Actual cleanup goals are site-specific and based on applicable regulatory guidelines. Generally, regulatory guidelines that apply to the cleanup of specific chemical constituents in soil are related to one or more of the following issues:

- Potential effects to groundwater

- Human health risks

With the exception of low concentrations of acetone (likely attributed to laboratory contamination), TPH and VOCs were not detected in any of the soil samples selected for analysis. The acetone concentrations reported by the laboratory (ranging from 51 to 74 µg/kg) were far below the RSL for soil at residential (61,000,000 µg/kg) and commercial/industrial (670,000,000 µg/kg) sites.

As discussed above, the VOC data for soil vapor support the conclusion that there has not been a significant release of VOCs at the Property. Based on the results of this Phase II investigation, SCS did not identify any evidence of a TPH or VOC release from USTs or past on-site operations that would negatively affect groundwater or represent a risk to human health.

METALS IN SOIL

Regulatory guidance for metals in soil is based on an evaluation of both background and risk-based concentrations. The Kearney Foundation of Soil Science Special Report, Division of Agriculture and Natural Resources, University of California has published *Background Concentrations of Trace and Major Elements in California Soils* (Bradford, et al). Human health risks associated with contact of soil containing metals (dermal, ingestion, etc.) in California can be assessed by comparing concentrations detected in soil at the Property to the DTSC-Recommended SLs.

As shown in **Table 2**, the concentrations all metals concentrations were below, or within the typical background concentration ranges for California soils and were well below the DTSC-Recommended SLs for both residential and industrial use. Based on the available information, SCS did not identify any evidence of a release of heavy metals affecting soils at the areas investigated during this Phase II investigation.

5 CONCLUSIONS AND RECOMMENDATIONS

On May 3 and 4, 2016, SCS conducted soil and soil vapor investigation activities at the Mesa Industries facility located at 1726 South Magnolia Avenue, Monrovia, California. The objective of the Phase II investigation was to evaluate the possible release of hazardous substances at the Property resulting from the past operations at the Property. Based on the results of this investigation, SCS concludes the following:

> No signs of contamination were noted during the field investigation. No evidence of current/former USTs was identified using geophysical survey methods at the asphalt-paved area to the south of the main building at the Property. TPH was not detected in any soil samples analyzed. With the exception of acetone, which is likely attributed to laboratory contamination, VOCs were not detected in soil samples analyzed. Concentrations of acetone detected in soil samples are well below RSLs for residential and commercial uses. Concentrations of metals in selected samples were consistent with expected background in California soils. PCE was detected at very low concentrations in 12 of 16 soil vapor samples. The PCE concentrations were below both residential and commercial/industrial screening levels and are not indicative of a significant release at the Property.

Based on these results, further investigation of this Property is not warranted or recommended.

6 REFERENCES

California Department of Toxic Substances Control (DTSC) and California Environmental Protection Agency (CalEPA). *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*. October 2011.

California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO). *Human Health Risk Assessment (HHRA) Note Number 3*. March 2016.

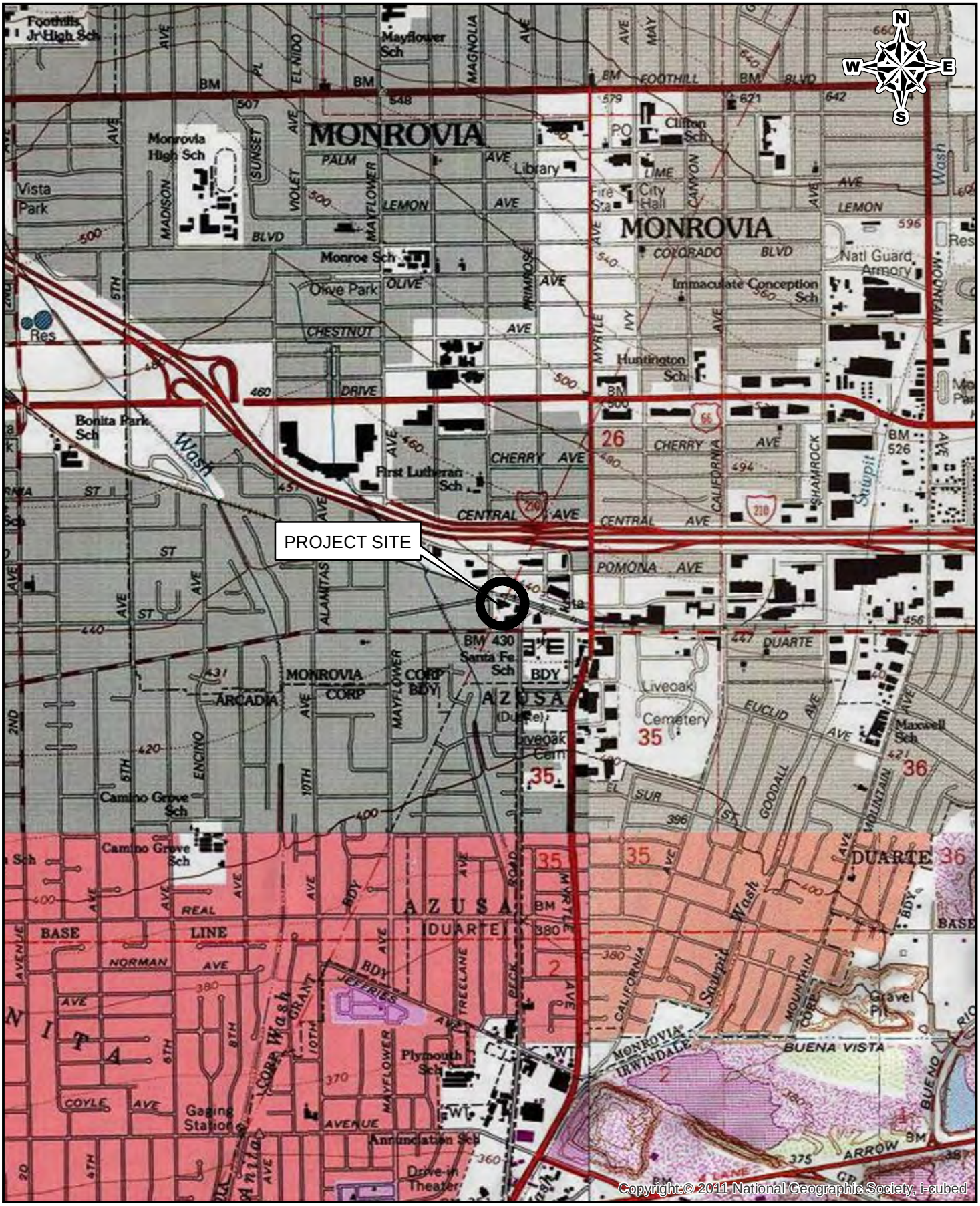
California Department of Water Resources. *Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County*. Bulletin No. 104. Reprinted April 1988.

California Environmental Protection Agency, January 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties*.

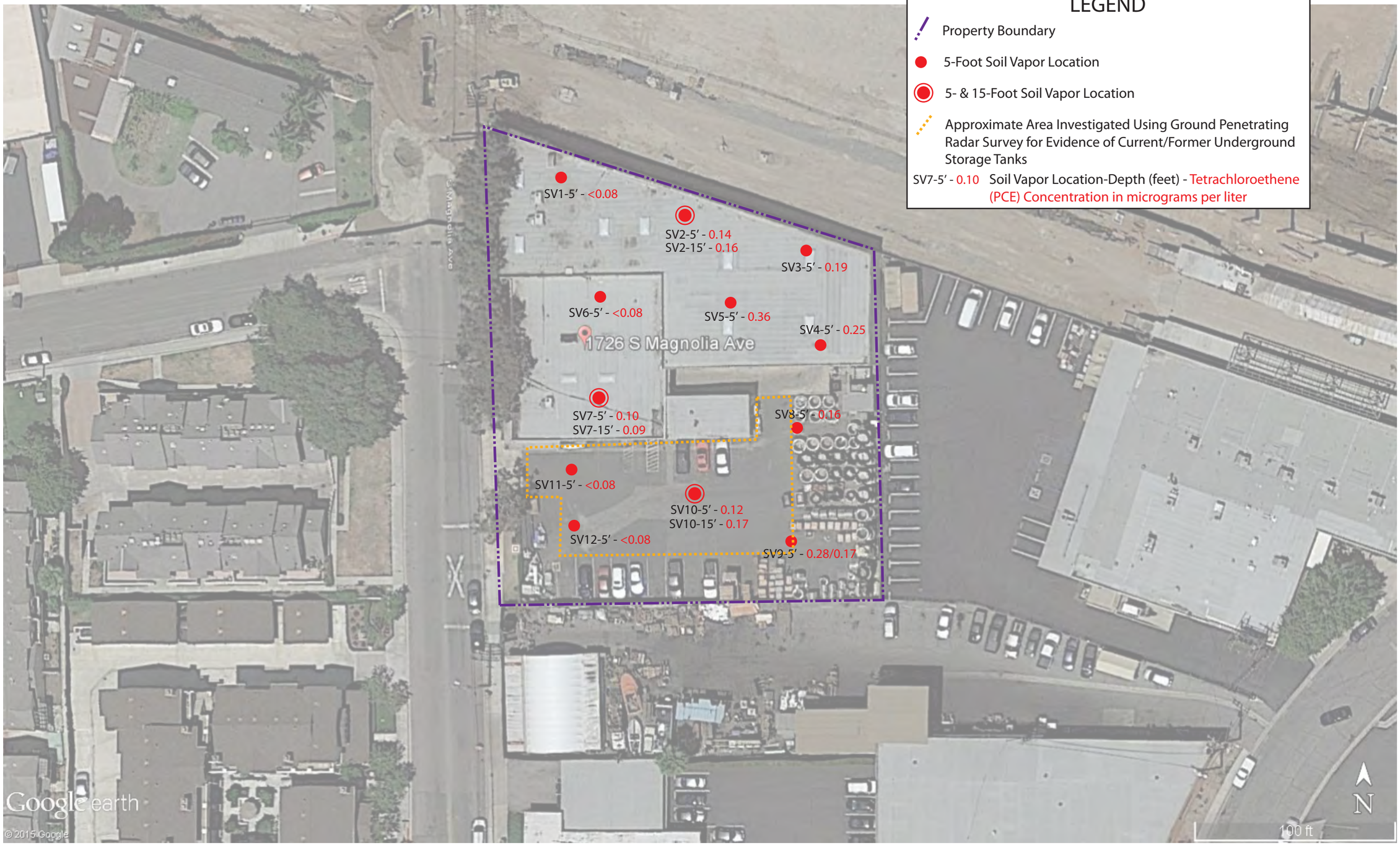
Los Angeles Regional Water Quality Control Board (LARWQCB). *Interim Site Assessment and Cleanup Guidebook*. May 1996.

SCS Engineers. *Phase I Environmental Site Assessment: Mesa Industries, 1726 South Magnolia Avenue, Monrovia, California*. March 10, 2015. SCS Project No. 01215043.00.

FIGURES 1 THROUGH 3



SCS ENGINEERS 3900 KILROY AIRPORT WAY, STE 100 LONG BEACH, CALIFORNIA 90806-6816	SITE: Mesa Industries, Inc. 1726 South Magnolia Avenue Monrovia, California 91016	Job No.: 01215043.01 Title: SITE LOCATION MAP	FIGURE 1



DATE: MAY 2016

SCALE: SEE FIGURE

FIGURE NO.: 2

SHEET TITLE: GOOGLE EARTH AERIAL IMAGE SHOWING SOIL VAPOR SAMPLING LOCATIONS AND TETRACHLOROETHENE (PCE) CONCENTRATIONS IN SOIL VAPOR

PROJECT TITLE: 1726 SOUTH MAGNOLIA AVENUE MONROVIA, CALIFORNIA 91016 (APN: 8507-003-051)

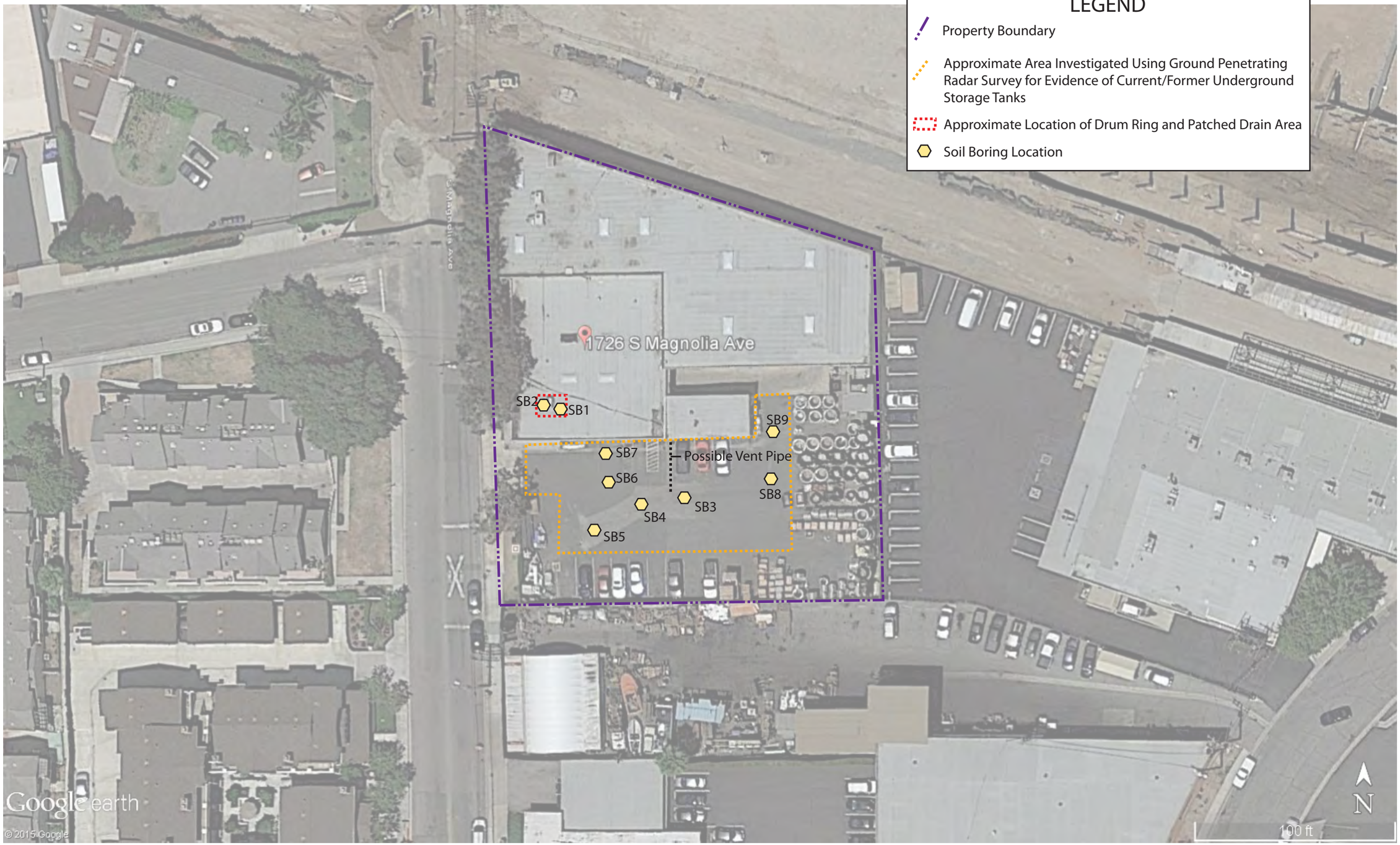
CLIENT: MESA INDUSTRIES, INC. 4141 AIRPORT ROAD CINCINNATI, OHIO 45226

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.: 012150043.01

DWN. BY: J. RAUZON

APP. BY: J. NUNO



DATE:	MAY 2016
SCALE:	SEE FIGURE
FIGURE NO.:	3

SHEET TITLE: GOOGLE EARTH AERIAL IMAGE SHOWING SOIL BORING LOCATIONS

PROJECT TITLE: 1726 SOUTH MAGNOLIA AVENUE MONROVIA, CALIFORNIA 91016 (APN: 8507-003-051)

CLIENT: MESA INDUSTRIES, INC. 4141 AIRPORT ROAD CINCINNATI, OHIO 45226

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.:	012150043.01
DWN. BY:	J. RAUZON
APP. BY:	J. NUNO

TABLES 1 AND 2

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR SOIL VAPOR SURVEY

1726 SOUTH MAGNOLIA AVENUE, MONROVIA, CALIFORNIA 91016

Sample Number (or Boring ID)	Sample Depth (feet bgs)	Sampling Date	Volatile Organic Compound (EPA Method 8260SV)
			Tetrachloroethene (PCE)
			Micrograms per liter (µg/L)
SV1	5	May 4, 2016	<0.08
SV2	5		0.14
	15		0.16
SV3	5		0.19
SV4	5		0.25
SV5	5		0.36
SV6	5		<0.08
SV7	5		0.10
	15		0.09
SV8	5		0.16
SV9	5		0.28
	5 (Replicate)		0.17
SV10	5		0.12
	15		0.17
SV11	5		<0.08
SV12	5		<0.08
DTSC-Recommended SL (Future Residential Building)			0.48
DTSC-Recommended SL (Existing Commercial/Industrial Building)			2.1

Notes:

bgs = below ground surface

DTSC-Recommended SL (Existing/Future Building) = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3. (March 2016, Referencing U.S. Environmental Protection Agency Regional Screening Level Reference Summary Table - November 2015). Note that DTSC recommends different attenuation factors when calculating SLs based on whether a site has an existing building or future construction, and whether land use is residential or commercial/industrial. Since the Property is currently industrial, the DTSC-Recommended SL for existing commercial/industrial buildings is used here. Since any residential building constructed on the Property would result from site redevelopment, the DTSC-Recommended SL for future residential construction is used here.

Three purge volumes were used for all sampling points.

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES - METALS

1726 SOUTH MAGNOLIA AVENUE, MONROVIA, CALIFORNIA 91016

Sample Number (or Boring ID)	Sample Depth (feet bgs)	Sampling Date	Title 22 Metals (EPA Method 6010B, except Mercury by EPA Method 7471A)															
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury (elemental)	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			Milligrams per kilogram (mg/kg), equivalent to parts per million (ppm)																
SB1	1	May 3-4, 2016	<2.0	<2.0	**80.6**	<1.0	<1.0	**20.2**	**13.1**	**22.9**	**8.71**	<0.05	<2.0	**17.1**	<2.0	<1.0	<2.0	**46.3**	**55.1**
	5		<2.0	<2.0	**47.5**	<1.0	<1.0	**15.4**	**11.1**	**17.6**	**3.95**	<0.05	<2.0	**14.2**	<2.0	<1.0	<2.0	**29.9**	**37.1**
SB2	1		<2.0	<2.0	**60.8**	<1.0	<1.0	**18.5**	**11.9**	**20.3**	**6.01**	<0.05	<2.0	**14.6**	<2.0	<1.0	<2.0	**41.6**	**48.5**
	5		<2.0	<2.0	**59.3**	<1.0	<1.0	**17.2**	**12.0**	**19.1**	**3.78**	<0.05	<2.0	**5.3**	<2.0	<1.0	<2.0	**38.1**	**41.2**
SB3	1		<2.0	<2.0	**66.3**	<1.0	<1.0	**19.4**	**12.5**	**20.7**	**6.04**	<0.05	<2.0	**15.8**	<2.0	<1.0	<2.0	**40.2**	**56.6**
SB4	1		<2.0	<2.0	**70.4**	<1.0	<1.0	**17.1**	**11.7**	**18.9**	**2.55**	<0.05	<2.0	**15.1**	<2.0	<1.0	<2.0	**37.9**	**43.6**
SB5	1		<2.0	<2.0	**73.1**	<1.0	<1.0	**17.1**	**11.6**	**20.5**	**9.46**	<0.05	<2.0	**13.9**	<2.0	<1.0	<2.0	**37.7**	**50.3**
SB6	1		<2.0	<2.0	**60.6**	<1.0	<1.0	**17.2**	**12.9**	**19.7**	**3.50**	<0.05	<2.0	**15.2**	<2.0	<1.0	<2.0	**37.2**	**41.9**
SB7	1		<2.0	<2.0	**65.4**	<1.0	<1.0	**18.9**	**12.4**	**21.3**	**4.25**	<0.05	<2.0	**15.6**	<2.0	<1.0	<2.0	**41.5**	**45.3**
SB8	1		<2.0	<2.0	**52.1**	<1.0	<1.0	**16.2**	**10.6**	**18.4**	**2.02**	<0.05	<2.0	**13.7**	<2.0	<1.0	<2.0	**34.7**	**37.9**
SB9	1		<2.0	<2.0	**53.7**	<1.0	<1.0	**16.8**	**10.8**	**23.9**	**3.05**	<0.05	<2.0	**14.7**	<2.0	<1.0	<2.0	**35.3**	**41.7**
Typical Range for CA Soils*			0.15-1.95	0.6-11	133-1,400	0.25-2.7	0.05-1.7	23-1,579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-0.9	0.1-9.6	9-509	0.015-0.430	0.1-8.3	0.17-1.1	39-288	88-236
DTSC-Recommended SL (Residential)			31	0.067	15,000	15	5.2	36,000/0.3±	23	3,100	80	1.0	390	490	390	390	0.78	390	23,000
DTSC-Recommended SL (Commercial/Industrial)			470	0.25	220,000	210	7.3	170,000/6.3±	350	47,000	320	4.5	5,800	3,100	5,800	1,500	12	1,000	350,000
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC**			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250
TCLP**			--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--

Notes:

bgs = below ground surface

* = Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Fampton, J.A., and Wright, H., 1996, *Background Concentrations of Trace and Major Elements in California Soils,* Kearney Foundation of Soil Science Special Report, Division of Agriculture and Natural Resources, University of California.

** = Values in milligrams per liter (mg/L)

± = Value for Chromium (III) / Value for Chromium (VI)

DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios (March 2016, Referencing U.S. Environmental Protection Agency Regional Screening Level Summary Table - November 2015).

TTLC = Total Threshold Limit Concentration as identified in Title 22 of the California Code of Regulations. Wastes with concentrations above this value are considered hazardous for the purposes of disposal under California regulations.

STLC = Soluble Threshold Limit Concentration, in mg/L, as identified in Title 22 of the California Code of Regulations. A concentration of ten times the STLC is sometimes used as a trigger to conduct further analysis (i.e., the soluble analysis) of a sample to determine disposal requirements. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under California regulations.

TCLP = Toxicity Characteristic Leaching Procedure concentration, in mg/L, as identified in the Code of Federal Regulations. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under federal regulations.

APPENDIX A

ULS GEOPHYSICAL SURVEY REPORT

SEATTLE / ALASKA/ SAN DIEGO/ LA / SAC / HAW
WWW.ULSSERVICES.COM
WWW.GEOMARKOUT.COM

CORPORATE ADDRESS
P.O. Box 724, Pocatello, ID 83204 (Mail only)
6742 West Buckskin Rd., Pocatello, Id 83204

FIELD SERVICES:

SEATTLE/ SAC / AK / HAW-PACIFIC RIM
1 866 804-5734
SOCAL
1 800 528-8206

ULS SERVICES CORP

GEOMARKOUT LOCATING CO a trade name of ULS

Work Order Agreement

Job Site Location **1726 S MAGNOLIA**	**PO TO WA**
City, State **MONROVIA, CA**	**Job Date** **5-3-16**

CLIENT SCS ENGINEERS	**FIELD TIME 4.5 REPORT 1.5**	**LABOR HOURS W/REPORT/ HRS 6**
ADDRESS		**FAXED**
CITY, STATE, ZIP		**TELEPHONED**
PHONE/FAX		**HAND DELIVERED**
E-MAIL		**E-MAILED**

WORK REQUESTED: UTILITY SURVEY AT 14 PROPOSED POINTS AND AN AREA APPROX 70' X 110'

WORK PERFORMED	**PRELIMINARY REVIEW OF CLIENT PROVIDED UTILITY DRAWINGS/AS-BUILTS: NONW**
VISUAL SITE INSPECTION (MANHOLES, DRAINS): YES SURFACE ONLY	**EMPCL CONDUCTIVE UTILITY SURVEY: CHECKED** **GAS: X ELECTRIC: X COMM.: X WATER: X**
EMIMD METAL DETECTION SURVEY : YES **AMBIENT NOISE AND SETTINGS** **LOW NOISE | GAIN 6.5 | LOW ELV** **REBAR IN CONCRETE ?**	**EM INSERTION : NF - INSERTION METHODS NOT PROVIDED DUE TO HEALTH AND SAFETY. SEE NOTES BELOW REGARDING LATERALS**
GPR NON-CONDUCTIVE SURVEY: FAIR TO GOOD RESULTS	**CLIENT ON-SITE REVIEW OF FINDINGS: YES**

GENERAL LIMITATIONS

NOTE: The work described herein is performed to industry standards (or higher) using multiple methodology and QA/QC protocol. ULS cannot guarantee the accuracy or the ability to detect all underground facilities and potential interferences. Non-conductive or conductive utilities/facilities may not be detected due to variables and constraints beyond ULS control. Where known, constraints and limitations will be brought to the client's attention. Excavation work may result in injury to persons and/or damage to facilities. Client and/or excavator are advised to take all steps necessary to avoid contact with underground facilities. This includes, but is not limited to, safe digging practices, hand tooling in congested areas and within two feet on side of marked utilities (distance may vary by law), utility drawing review, site facilities representative review, and "one-call" utilities notification. ULS and its representatives are not responsible for injury to persons or damage to facilities. This document and accompanying pages will be delivered to the client before commencement of intrusive work for the client's review. If any questions arise, please notify our office immediately.

NOTE: Specific comments/limitations/constraints, known and recognized will be recorded on attached pages (field notes). Caution – some facilities (conductive or non- conductive) may not be detected. Not all limitations and constraints may be recognized.

SIGNATURE OF ULS REPRESENTATIVE ON-SITE **CHRIS REIMER**		**PAGE OF** **1**

ULS SERVICES CORPORATION

.....

GEOMARKOUT

a trade name of ULS Services Corp (23 years Anv)

CLIENT **SCS**
LOCATION **1726 S MAGNOLIA**
DATE **5-3-16**

METHODS AND GENERAL OBSERVATIONS:

ARRIVED SITE AND COMPLETED H&S TAILGATE AND/OR PERMIT TO WORK WITH CLIENT. SET UP DELINEATORS AROUND VEHICLE AND NEAR BLINDSPOTS AND ENTRY WAYS. MADE GENERAL SITE WALK TO REVIEW SURVEY AREAS (PROPOSED ZONES). CHECKED FOR SURFACE UTILITY MANIFESTATIONS SUCH AS VALVES, METERS, CONDUITS, TRENCHING SEAMS, VAULT LIDS AND EXISTING ONE CALL MARKINGS. BEGAN MARKOUT WORK.

METHODS UTILIZED INCLUDE: EM PIPE AND CABLE LOCATOR USING AMBIENT, GROUND INDUCTION AND CONNNECTION MODE SWEEPS. EM INDUCTION METAL DETECTOR AND GPR. A CARTISIAN GRID PATH IS WALKED AT EACH PROPOSED ZONE USING ALL METHODOLOGY. OBSERVATIONS ARE MARKED WITH WHITE AND/OR PINK PAINT. ZONE IS MARKED OUT WITH WHITE AND/OR PINK MARKINGS (REFER TO PHOTOS).

SITE CALIBRATION - GENERAL OBSERVATIONS

EM PIPE AND CABLE TRANSMITTER TO RECIEVER (GROUND INDUCTION AND CONNECTION) BROADCASTING IS _GOOD_____ATTENUATION EFFECTS FROM CONCRETE STEEL REINFORCEMENT _NIL_____
EMIMD METAL DETECTOR BACKGROUND EM NOISE IS __LOW OUTSIDE BLDG_____
GPR PENETRATION AND RESOLUTION IS _FAIR TO GOOD_____.

SEE QA / QC OBSERVATION COMMENTS TO RIGHT SIDE AND SPECIFIC OBSERVATIONS / COMMENTS BELOW ……>

	QA / QC Follows
X	**SITE WALK**
X	VISUALS
X	
X	**UTILITY MAINS**
X	**ELECTRIC** – OVERHEAD
X	**TELEPHONE** – OVERHEAD
X	**NAT GAS TO METER AT SW CORNER OF BLDG**
X	**WATER FROM METER TO BLDG**
X	SEWER/STORM IN STREET
X	**SEWER LATERAL**
X	**CAUTION DRAIN LINE TO C/O AT SW CORNNER OF BLDG**
X	CAUTION PVC WATER
X	
X	**OTHER**
X	FUELS SYSTEM
X	USTS EVIDENCE OF TANKS
X	PIPING NO PIPING OBSERVED
X	VENTS POSSIBLE VENT IN TRENCH PATCHING

ULS / GEOMARKOUT
a trade name of ULS Services Corp (23 years Anv)

CLIENT **SCS**
LOCATION **1726 S MAGNOLIA**
DATE **5-3-16**

SPECIFIC OBSERVATIONS AND COMMENTS OR CONCERNS:

PROPOSED :

INSIDE BLDG

SV1,SV2,SV3,SV4 AND SV5 – NO SIGNALS FOUND IN CONFLICT

SB1 AND SV7 – CAUTION FOR FILLED DRAIN INLET. GPR SHOWED TRENDS NORTH AND SOUTH FROM FORMER DRAIN INLET. SOUTH TREND TURNS EAST. NO OTHER SIGNALS FOUND.

SB2 AND SV6 – NO SIGNALS FOUND IN CONFLICT

OUTSIDE BLDG

SV8 – CAUTION FOR NATURAL GAS AND DRAIN LINE IN TRENCH PATCHING APPROX 5' TO 6' SOUTH OF POINT

SV9 – NO SIGNALS FOUND IN CONFLICT

SV11 – CAUTION FOR DRAIN LINE AND NATURAL GAS IN TRENCH PATCHING APPROX 3' TO 5' NORTH OF POINT

SV12 – NO SIGNALS FOUND IN CONFLICT

SV10 – NO SIGNALS FOUND IN CONFLICT. ASPHALT PATCHING NEAR POINT IS REPORTED REMOVED TANK EXCAVATION. NO GPR PARABOLIC RESPONSE OR DISTINCT SOIL DISTURBANCE NOTED.

AREA APPROX 70' X 110'

NO EM SIGNALS OR GPR RESPONSE NOTED OTHER THAT SIGNALS FOUND ASSOCIATED WITH DRAIN AND GAS LINE IN TRENCH PATCHING. ALSO POSSIBLE VENT LINE FROM BLDG TO AREA OF REPORTED EXCAVATION WHERE SIGNAL AND GPR RESPONSE ENDS.

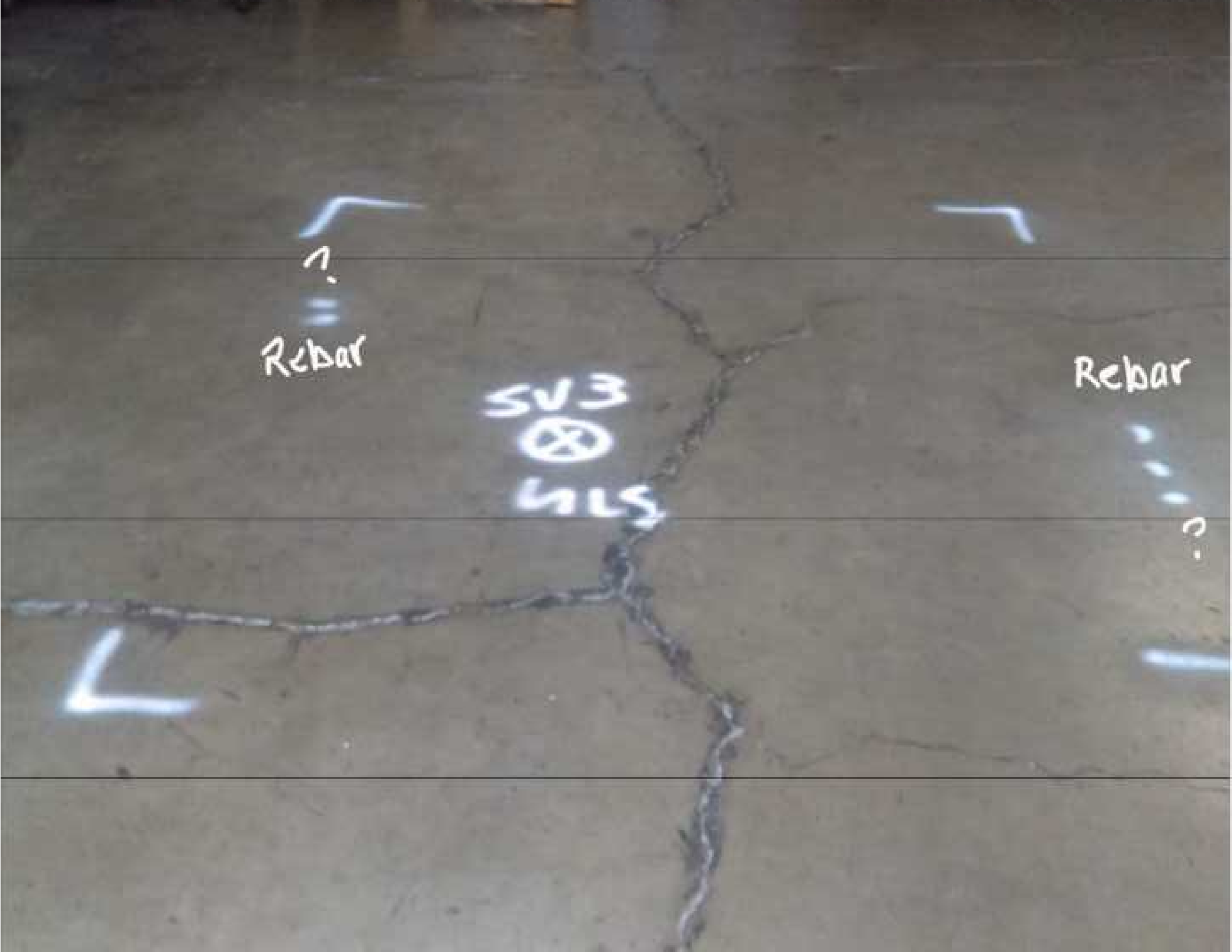
END REPORT/ PHOTO EDITS AND SKETCH ATTACHED

LOCATE ENERGY ISOLATION INCLUDING WATER AT THIS SITE AND SAWCUT, JACKHAMMER, AIRKNIFE DIG CAREFULLY IN EACH LOCATION.

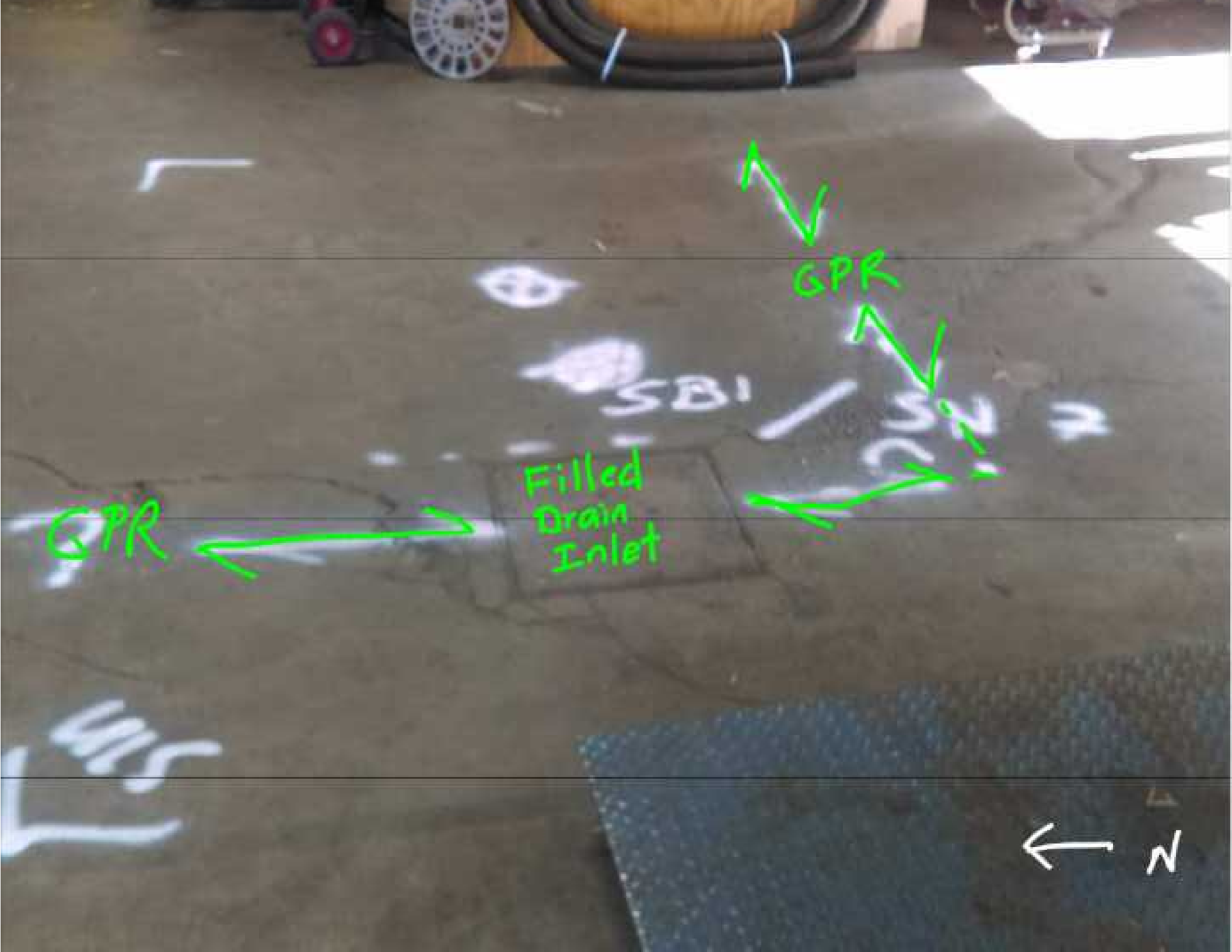
.

CHRIS REIMER
ULS / GEOMARKOUT

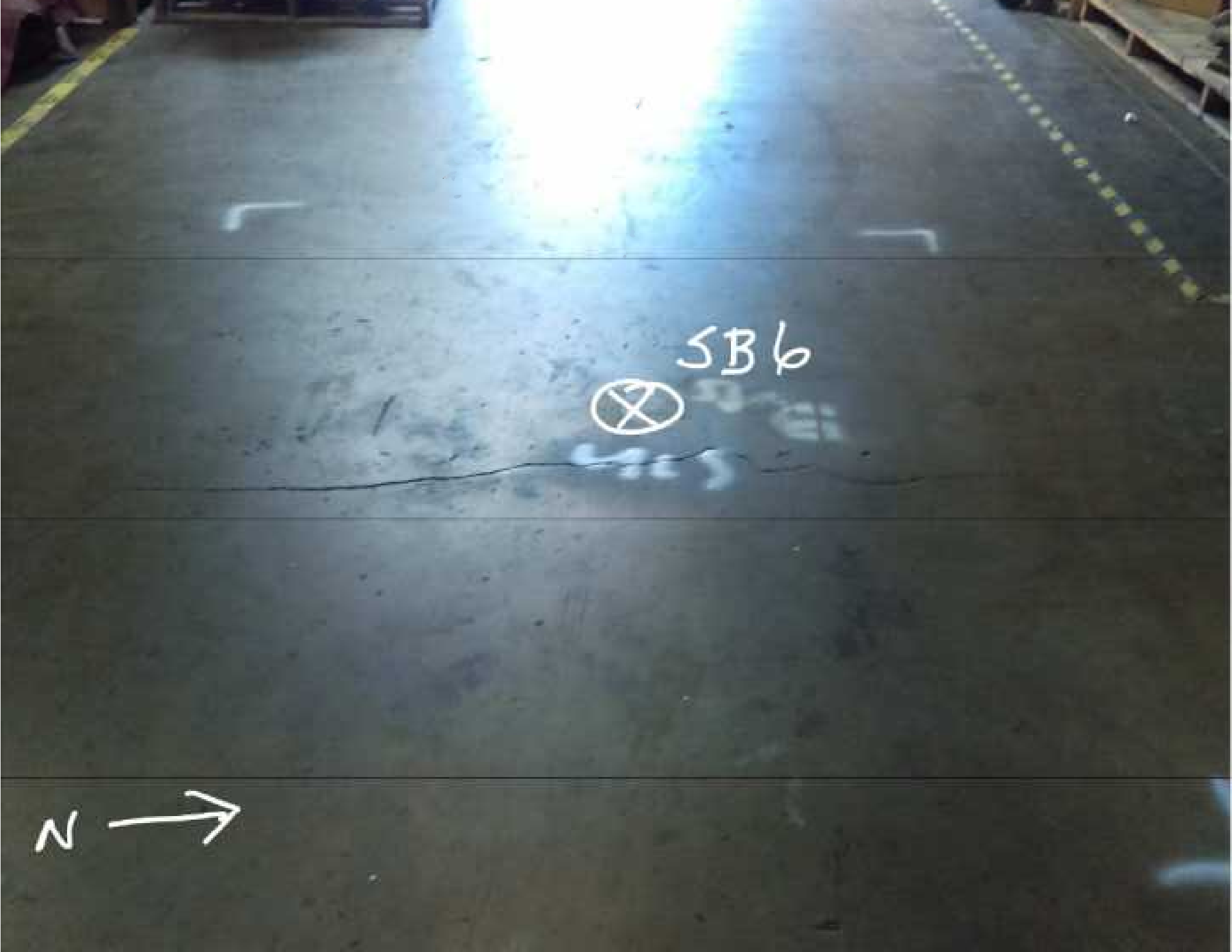

N


Rebar
SV3
Rebar


Rebar ? ? ?
SV5
N

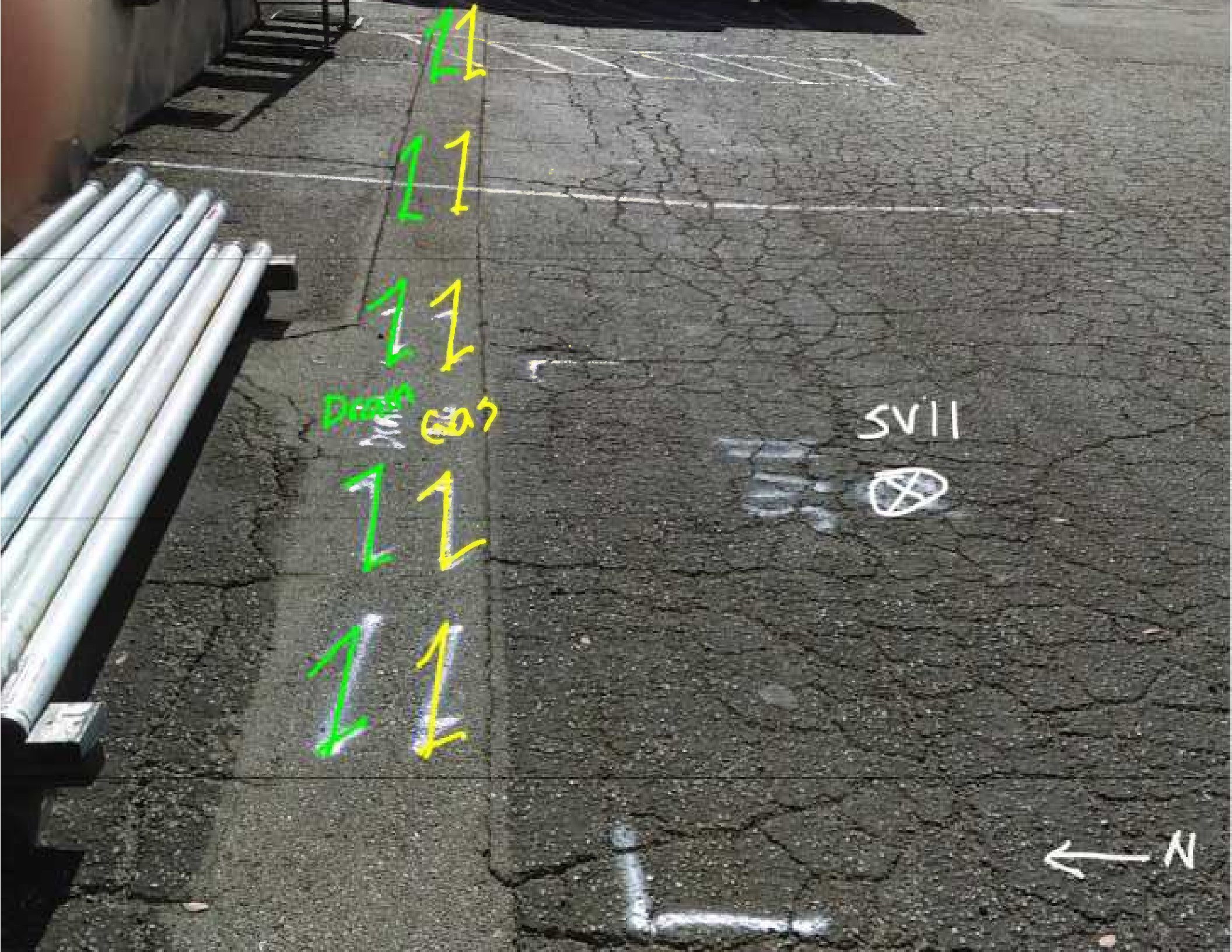

GPR
GPR
Filled
Drain
Inlet
N


SB-2
N


SB6
N

Gas
Brake
N
SV8


Drain
N


SVII
N


SV12
N


Excavation
?
N


Excavation ?
End ?
N


6NEE615
END


SV12
Excavation ?
N

1726 S Magnolia Ave

Google Maps

ULS Extended Survey
Approx 70' x 116'

1726 S Magnolia Ave

Google Maps

ULS Extended Survey
Approx 70' x 116'

APPENDIX B

BORING LOGS

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB1

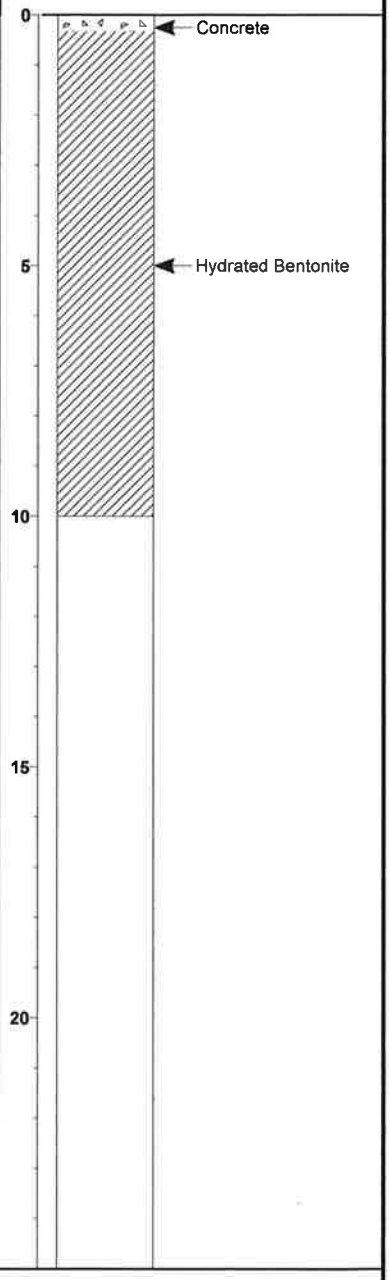
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB1-1		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Soft.
1								
	5		SB1-5		0.0	SM		Brown, Sandy Silt, Slightly Moist, Soft.
2								
3	10		SB1-10		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Soft.
4								
	15							
5								
6	20							
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/3/16**
Date Ended: **5/3/16**
Total Depth: **10.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

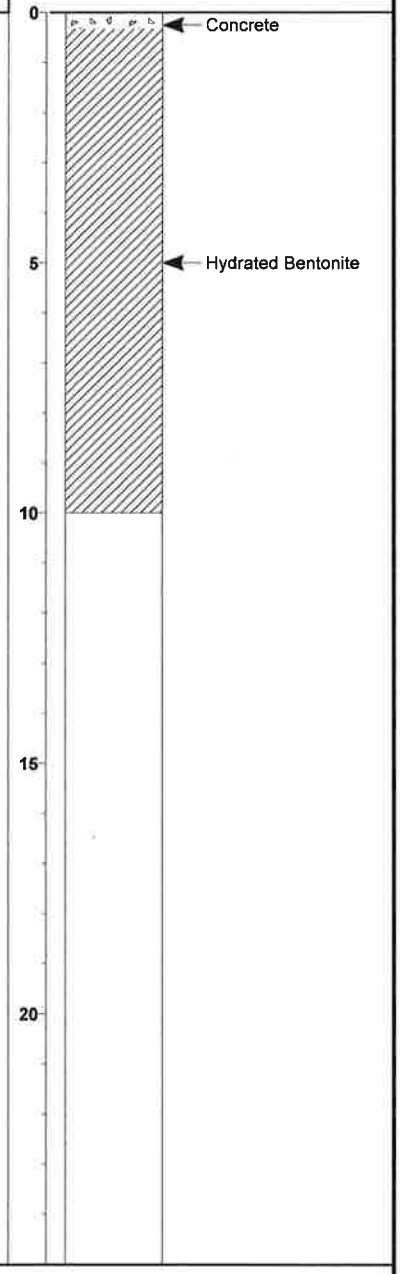
BORING NUMBER: SB2

Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB2-1		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Soft.
1	5		SB2-5		0.0	SM		Brown, Sandy Silt with 5% Gravel, Slightly Moist, Soft.
3	10		SB2-10		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Soft.
6	20							
7	25							



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/3/16**
Date Ended: **5/3/16**
Total Depth: **10.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB3

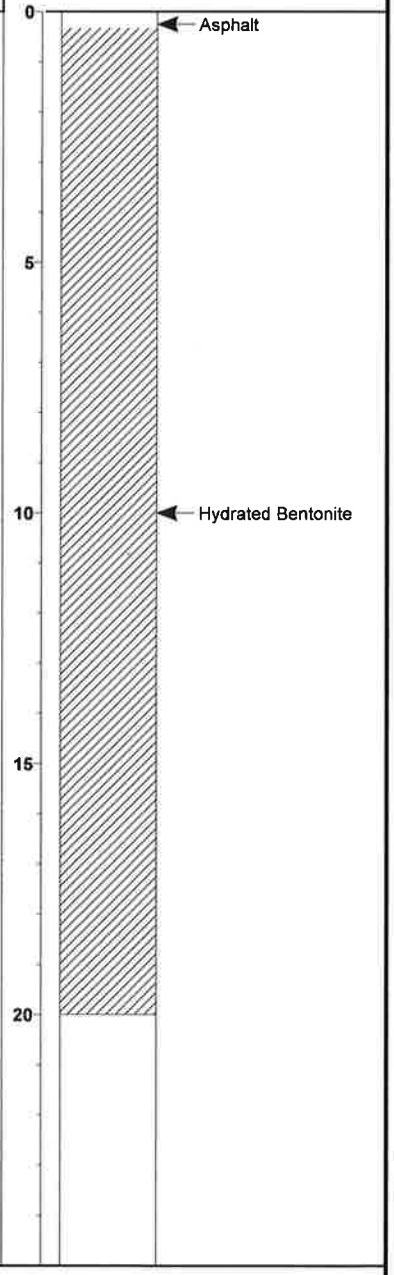
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB3-1		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Medium Stiff.
1	5		SB3-5		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Medium Stiff.
2								
3	10		SB3-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
5	15		SB3-15		0.0	SM		Orange-Brown, Coarse Sandy Silt, Slightly Moist, Medium Stiff.
6	20		SB3-20		0.0	ML		Orange-Brown, Silt, Slightly Moist, Medium Stiff.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/3/16**
Date Ended: **5/3/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

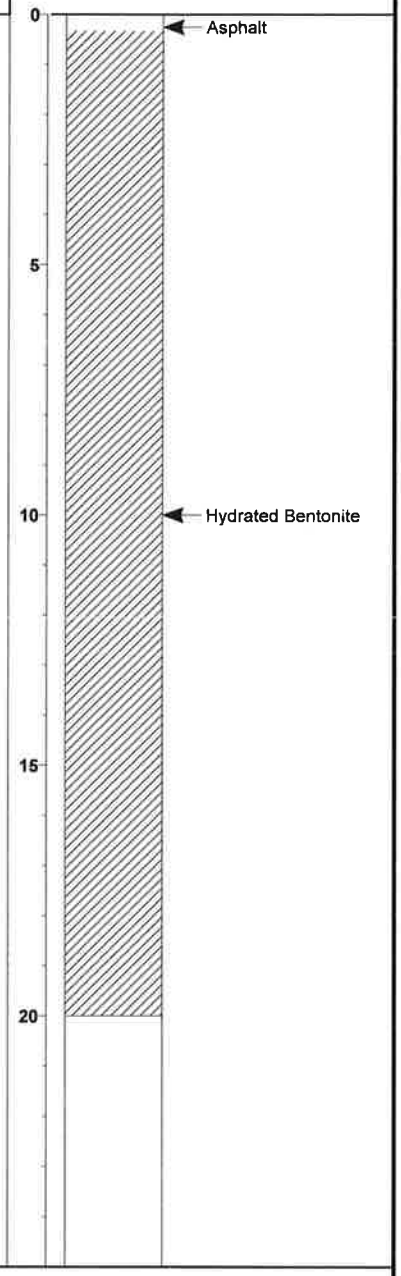
BORING NUMBER: SB4

Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB4-1		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Medium Stiff.
1	5		SB4-5		0.0	SM		Brown, Sandy Silt, Slightly Moist, Medium Stiff.
2								
3	10		SB4-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
	15		SB4-15		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
5								
6	20		SB4-20		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
7								
	25							



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/4/16**
Date Ended: **5/4/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB5

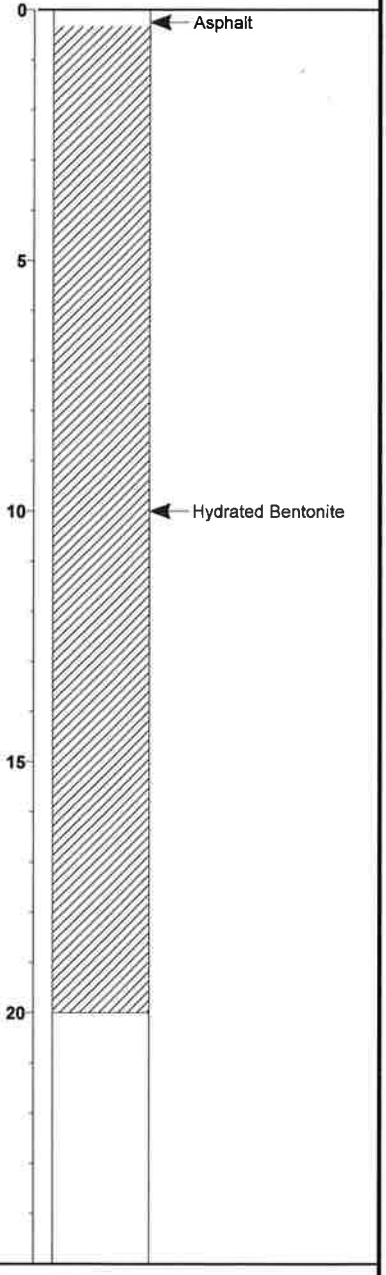
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB5-1		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Medium Stiff.
1	5		SB5-5		0.0	SM		Brown, Sandy Silt, Slightly Moist, Medium Stiff.
2								
3	10		SB5-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
	15		SB5-15		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
5								
6	20		SB5-20		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Medium Stiff.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/4/16**
Date Ended: **5/4/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB6

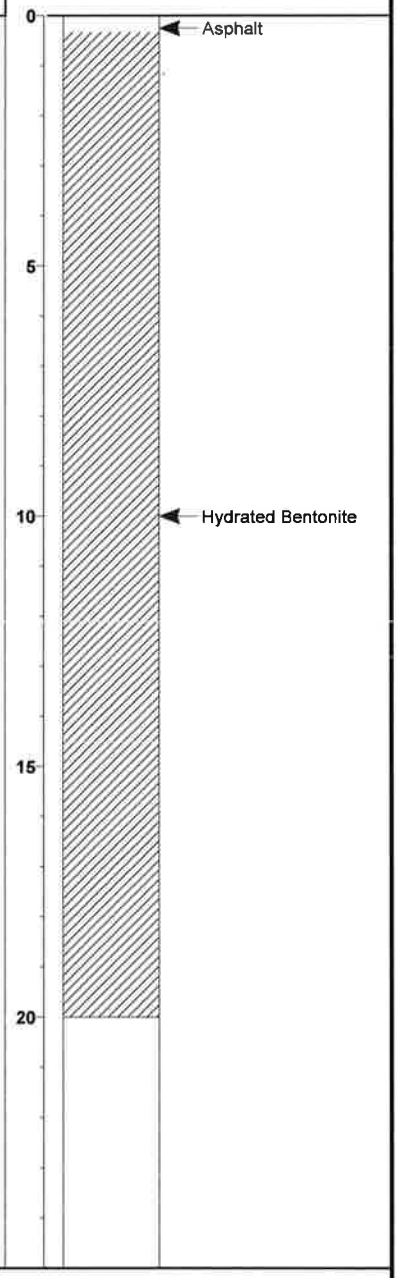
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB6-1		0.0	SM		Dark Brown, Sandy Silt, Slightly Moist, Medium Stiff.
1	5		SB6-5		0.0	SM		Brown, Sandy Silt, Slightly Moist, Medium Stiff.
2								
3	10		SB6-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
	15		SB6-15		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
5								
6	20		SB6-20		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Medium Stiff.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/4/16**
Date Ended: **5/4/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB7

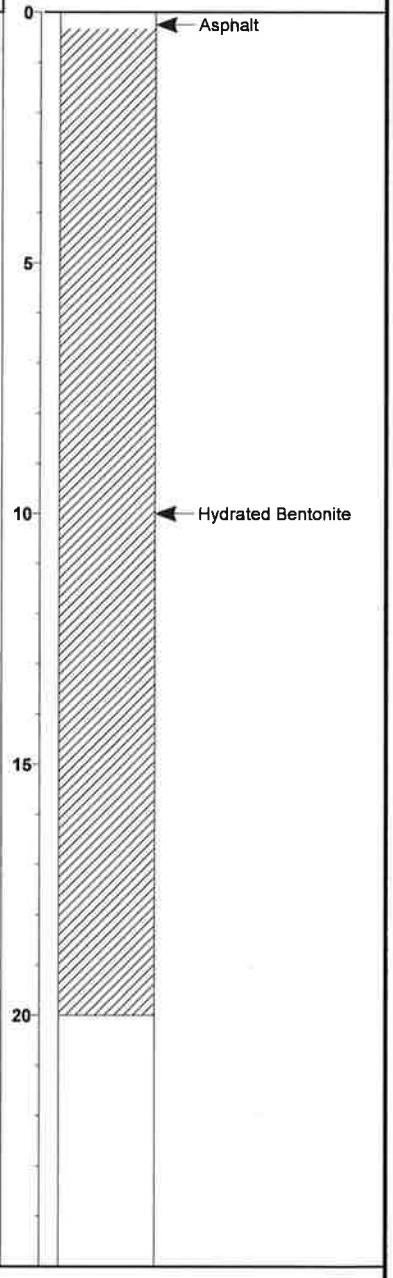
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB7-1		0.0	SM		Dark Brown, Sandy Silt with 5% Gravel, Slightly Moist, Medium Stiff.
1	5		SB7-5		0.0	SM		Brown, Sandy Silt with 10% Gravel, Slightly Moist, Medium Stiff.
2								
3	10		SB7-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
	15		SB7-15		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
5								
6	20		SB7-20		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Medium Stiff.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/4/16**
Date Ended: **5/4/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB8

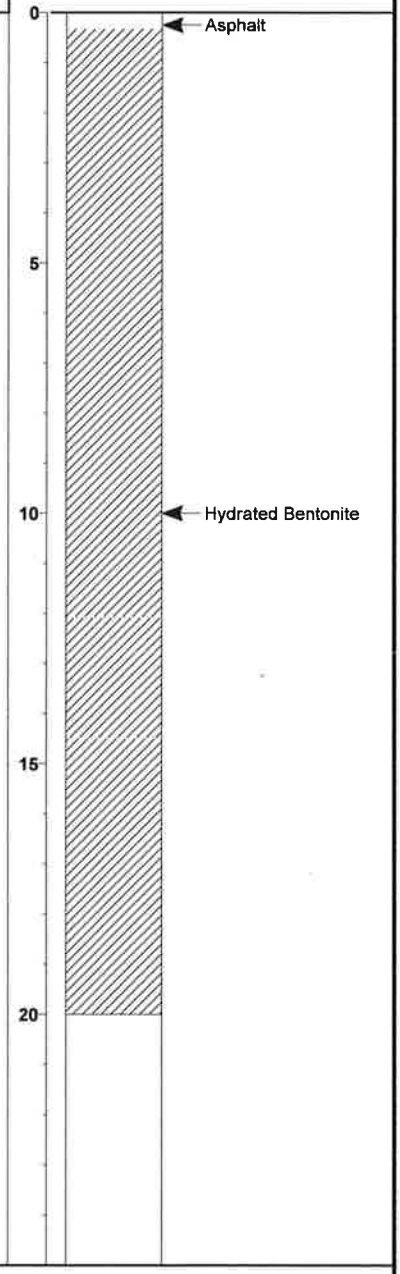
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB8-1		0.0	SM		Dark Brown, Sandy Silt with 5% Gravel, Slightly Moist, Medium Stiff.
1	5		SB8-5		0.0	SM		Brown, Sandy Silt with 10% Gravel, Slightly Moist, Medium Stiff.
2								
3	10		SB8-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
	15		SB8-15		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
5								
6	20		SB8-20		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Medium Stiff.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/4/16**
Date Ended: **5/4/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB9

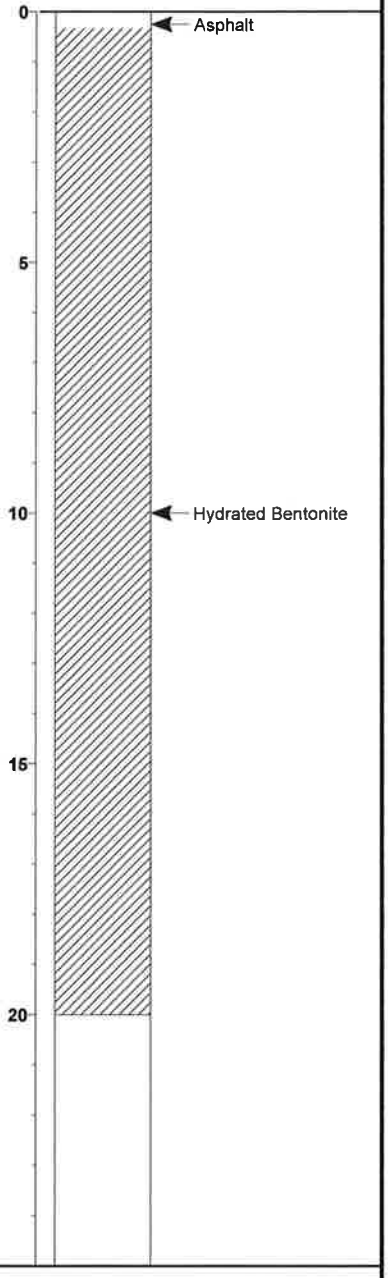
Mesa Industries
1726 South Magnolia Avenue
Monrovia, CA

JOB NUMBER: 01215043.01

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0		SB9-1		0.0	SM		Dark Brown, Sandy Silt with 5% Gravel, Slightly Moist, Medium Stiff.
1								
	5		SB9-5		0.0	SM		Brown, Sandy Silt with 10% Gravel, Slightly Moist, Medium Stiff.
2								
3	10		SB9-10		0.0	ML		Orange-Brown, Clayey Silt, Slightly Moist, Stiff.
4								
	15		SB9-15		0.0	SM		Orange-Brown, Sandy Silt, Slightly Moist, Medium Stiff.
5								
6	20		SB9-20		0.0	SM		Orange-Brown, Sandy Silt with less than 5% Gravel, Slightly Moist, Medium Stiff.
7								
	25							

Completion Detail



Drilling Company: **H & P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Solid Spoon**

Date Started: **5/4/16**
Date Ended: **5/4/16**
Total Depth: **20.0 ft**
Boring Diameter: **1.5-inch**

STANDARD_LOG MONROVIA.GPJ STD_LOG.GDT 5/10/16

APPENDIX C

H&P LABORATORY REPORT

Mobile Geochemistry Inc.

09 May 2016

Mr. Justin Rauzon
SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806-6816

H&P Project: SCS050416-L6
Client Project: 01215043.01/ 1726 S Magnolia Ave

Dear Mr. Justin Rauzon:

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 04-May-16 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 Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV10-5	E605008-01	Vapor	04-May-16	04-May-16
SV10-15	E605008-02	Vapor	04-May-16	04-May-16
SV9-5	E605008-03	Vapor	04-May-16	04-May-16
SV9-5 REP	E605008-04	Vapor	04-May-16	04-May-16
SV8-5	E605008-05	Vapor	04-May-16	04-May-16
SV7-5	E605008-06	Vapor	04-May-16	04-May-16
SV7-15	E605008-07	Vapor	04-May-16	04-May-16
SV4-5	E605008-08	Vapor	04-May-16	04-May-16
SV6-5	E605008-09	Vapor	04-May-16	04-May-16
SV1-5	E605008-10	Vapor	04-May-16	04-May-16
SV2-5	E605008-11	Vapor	04-May-16	04-May-16
SV2-15	E605008-12	Vapor	04-May-16	04-May-16
SV3-5	E605008-13	Vapor	04-May-16	04-May-16
SV5-5	E605008-14	Vapor	04-May-16	04-May-16
SV11-5	E605008-15	Vapor	04-May-16	04-May-16
SV12-5	E605008-16	Vapor	04-May-16	04-May-16

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

DETECTIONS SUMMARY

Sample ID: **SV10-5** Laboratory ID: **E605008-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.12**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV10-15** Laboratory ID: **E605008-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.17**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV9-5** Laboratory ID: **E605008-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.28**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV9-5 REP** Laboratory ID: **E605008-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.17**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV8-5** Laboratory ID: **E605008-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.16**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV7-5** Laboratory ID: **E605008-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.10**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV7-15** Laboratory ID: **E605008-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.09**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV4-5** Laboratory ID: **E605008-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.25**	0.08	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Sample ID: **SV6-5** Laboratory ID: **E605008-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV1-5** Laboratory ID: **E605008-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV2-5** Laboratory ID: **E605008-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.14**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV2-15** Laboratory ID: **E605008-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.16**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV3-5** Laboratory ID: **E605008-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.19**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV5-5** Laboratory ID: **E605008-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.36**	0.08	ug/l	H&P 8260SV	

Sample ID: **SV11-5** Laboratory ID: **E605008-15**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV12-5** Laboratory ID: **E605008-16**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E605008-01) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.12**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E605008-01) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*110 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-15 (E605008-02) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.17**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-15 (E605008-02) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.1 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5 (E605008-03) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.28**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5 (E605008-03) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5 REP (E605008-04) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.17**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5 REP (E605008-04) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5 (E605008-05) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.16**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5 (E605008-05) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-5 (E605008-06) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.10**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-5 (E605008-06) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-15 (E605008-07) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.09**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-15 (E605008-07) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-5 (E605008-08) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.25**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-5 (E605008-08) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV6-5 (E605008-09) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV6-5 (E605008-09) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E605008-10) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E605008-10) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5 (E605008-11) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.14**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5 (E605008-11) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.7 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-15 (E605008-12) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.16**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-15 (E605008-12) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5 (E605008-13) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.19**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5 (E605008-13) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-5 (E605008-14) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	**0.36**	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-5 (E605008-14) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-5 (E605008-15) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-5 (E605008-15) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-5 (E605008-16) Vapor Sampled: 04-May-16 Received: 04-May-16									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.80	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.80	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-5 (E605008-16) Vapor Sampled: 04-May-16 Received: 04-May-16									
Ethylbenzene	ND	0.40	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	
o-Xylene	ND	0.40	"	"	"	"	"	"	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*117 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Petroleum Hydrocarbon Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E605008-01) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV10-15 (E605008-02) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV9-5 (E605008-03) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV9-5 REP (E605008-04) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV8-5 (E605008-05) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV7-5 (E605008-06) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV7-15 (E605008-07) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV4-5 (E605008-08) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV6-5 (E605008-09) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Petroleum Hydrocarbon Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E605008-10) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV2-5 (E605008-11) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV2-15 (E605008-12) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV3-5 (E605008-13) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV5-5 (E605008-14) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV11-5 (E605008-15) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.05	EE60412	04-May-16	04-May-16	H&P 8260SV	
SV12-5 (E605008-16) Vapor Sampled: 04-May-16 Received: 04-May-16									
TPHv (C5 - C12)	ND	160	ug/l	0.04	EE60412	04-May-16	04-May-16	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE60412 - EPA 5030										
Blank (EE60412-BLK1)				Prepared & Analyzed: 04-May-16						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
Diisopropyl ether (DIPE)	ND	0.80	"							
1,1-Dichloroethane	ND	0.40	"							
Ethyl tert-butyl ether (ETBE)	ND	0.80	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Tertiary-amyl methyl ether (TAME)	ND	0.80	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE60412 - EPA 5030										
Blank (EE60412-BLK1)				Prepared & Analyzed: 04-May-16						
1,3-Dichloropropane	ND	0.40	ug/l							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							
Chlorobenzene	ND	0.08	"							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Tertiary-butyl alcohol (TBA)	ND	4.0	"							
Surrogate: Dibromofluoromethane	*2.15*		*"*	*2.00*		*107*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE60412 - EPA 5030										
Blank (EE60412-BLK1)				Prepared & Analyzed: 04-May-16						
Surrogate: 1,2-Dichloroethane-d4	*2.23*		*ug/l*	*2.00*		*112*	*75-125*			
Surrogate: Toluene-d8	*2.16*		*"*	*2.00*		*108*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.01*		*"*	*2.00*		*101*	*75-125*			
LCS (EE60412-BS1)				Prepared & Analyzed: 04-May-16						
Dichlorodifluoromethane (F12)	3.63	0.50	ug/l	5.00		72.6	70-130			
Vinyl chloride	4.44	0.05	"	5.00		88.8	70-130			
Chloroethane	5.37	0.50	"	5.00		107	70-130			
Trichlorofluoromethane (F11)	4.97	0.50	"	5.00		99.4	70-130			
1,1-Dichloroethene	5.82	0.50	"	5.00		116	70-130			
Methylene chloride (Dichloromethane)	5.26	0.50	"	5.00		105	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.60	0.50	"	5.00		132	70-130			QL-1H
trans-1,2-Dichloroethene	5.77	0.50	"	5.00		115	70-130			
1,1-Dichloroethane	5.25	0.50	"	5.00		105	70-130			
cis-1,2-Dichloroethene	5.68	0.50	"	5.00		114	70-130			
Chloroform	5.68	0.10	"	5.00		114	70-130			
1,1,1-Trichloroethane	5.24	0.50	"	5.00		105	70-130			
Carbon tetrachloride	5.70	0.10	"	5.00		114	70-130			
1,2-Dichloroethane (EDC)	5.65	0.10	"	5.00		113	70-130			
Benzene	5.17	0.10	"	5.00		103	70-130			
Trichloroethene	5.89	0.10	"	5.00		118	70-130			
Toluene	5.27	1.0	"	5.00		105	70-130			
1,1,2-Trichloroethane	5.95	0.50	"	5.00		119	70-130			
Tetrachloroethene	5.48	0.10	"	5.00		110	70-130			
Ethylbenzene	5.18	0.50	"	5.00		104	70-130			
1,1,1,2-Tetrachloroethane	5.70	0.50	"	5.00		114	70-130			
m,p-Xylene	10.1	0.50	"	10.0		101	70-130			
o-Xylene	5.15	0.50	"	5.00		103	70-130			
1,1,2,2-Tetrachloroethane	5.79	0.50	"	5.00		116	70-130			
Surrogate: Dibromofluoromethane	*2.60*		*"*	*2.50*		*104*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.87*		*"*	*2.50*		*115*	*75-125*			
Surrogate: Toluene-d8	*2.72*		*"*	*2.50*		*109*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE60412 - EPA 5030										
LCS (EE60412-BS1)				Prepared & Analyzed: 04-May-16						
Surrogate: 4-Bromofluorobenzene	*2.61*		*ug/l*	*2.50*		*105*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Petroleum Hydrocarbon Analysis - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE60412 - EPA 5030										
Blank (EE60412-BLK1)				Prepared & Analyzed: 04-May-16						
TPHv (C5 - C12)	ND	160	ug/l							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

SCS Engineers - Long Beach	Project: SCS050416-L6	
3900 Kilroy Airport Way, Suite 100	Project Number: 01215043.01/ 1726 S Magnolia Ave	Reported:
Long Beach, CA 90806-6816	Project Manager: Mr. Justin Rauzon	09-May-16 12:12

Notes and Definitions

QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

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, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

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.

H&P Mobile Geochemistry, Inc.

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

VAPOR / AIR Chain of Custody

DATE: 5/4/16
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01215043.01
Lab Client Project Manager: Justin Rauzon	Project Location: 1726 E. Magnolia Ave
Lab Client Address: 3900 Kilroy Airport Way Suite 100	Report E-Mail(s): Jrauzon@scsengineers.com, cromanowski@scsengineers.com
Lab Client City, State, Zip: Long Beach, CA 90806-6816	
Phone Number: 562-426-9544 3027	

Sample Receipt (Lab Use Only)

Date Rec'd: 5/4/16	Control #: 160402.03
H&P Project # SCS 050416-L6	
Lab Work Order # E605008	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:________
☐ CA Geotracker Global ID:________

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): Tam Chu
Signature: [signature]
Date: 5/4/16

Additional Instructions to Laboratory:

☒ Check if Project Analyte List is Attached — E600412

Preferred VOC units (please choose one):

☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☒ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☒ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SV10-5		5/4/16	7:28	SV	Glass S.			X		X		X			X					
SV10-15		↓	7:47	↓	↓			X		X		X			X					
SV9-5			8:03					X		X		X			X					
SV9-5 REP			8:04					X		X		X			X					
SV8-5			8:35					X		X		X			X					
SV7-5			9:02					X		X		X			X					
SV7-15			9:15					X		X		X			X					
SV4-5			9:49					X		X		X			X					
SV6-5			10:04					X		X		X			X					
SV1-5			10:30					X		X		X			X					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
[signature]	SCS	5/4/16	241	[signature]	H&P	5/4/16	3:20

**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Rev 08/18/2014

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

VAPOR / AIR Chain of Custody

DATE: 5/4/16
Page 2 of 2

Lab Client and Project Information

Lab Client/Consultant: SCS Engineers	Project Name / #: 01215043.01
Lab Client Project Manager: Justin Lawson	Project Location: 1726 S. Magnolia Ave
Lab Client Address: 3900 Kilroy Airport Way Suite 100	Report E-Mail(s):
Lab Client City, State, Zip: Long Beach, CA 90806-6816	
Phone Number: 562-426-9544 3027	

Sample Receipt (Lab Use Only)

Date Rec'd: 5/4/16	Control #: 160402.03
H&P Project # SCS050416-16	
Lab Work Order # 16050048	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): Tam Ch.
Signature: Clayton
Date: 5/4/16

Additional Instructions to Laboratory:

☒ Check if Project Analyte List is Attached

Preferred VOC units (please choose one):

☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☒ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☒ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SV2.5		5/4/16	10:56	SV	Glass S.			X		X		X			X				
SV2-15			11:27					X		X		X			X				
SV3.5			12:00					X		X		X			X				
SV5.5			12:42					X		X		X			X				
SV11.5			13:17					X		X		X			X				
SV12.5			13:51					X		X		X			X				

Approved/Relinquished by:	Company: SCS	Date: 5/4/16	Time: 242	Received by:	Company: H&P	Date: 5/4/16	Time: 3:20
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 08/18/2014

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
Field Office in Signal Hill, CA (Los Angeles)
Ph: 800-834-9888 www.handpmg.com

H&P Method 8260SV (Modified EPA 8260B)
VOCs + Oxy + TPHg

Compound	*CAS #*	*Low RL* Vapor (µg/L)*
Dichlorodifluoromethane (F12)	75-71-8	0.4
Chloromethane	74-87-3	0.4
Vinyl chloride	75-01-4	0.04
Bromomethane	74-83-9	0.4
Chloroethane	75-00-3	0.4
Trichlorofluoromethane (F11)	75-69-4	0.4
1,1-Dichloroethene	75-35-4	0.4
1,1,2-Trichlorotrifluoroethane (F113)	76-13-1	0.4
Methylene chloride (Dichloromethane)	75-09-2	0.4
Methyl tertiary-butyl ether (MTBE)	1634-04-4	0.4
trans-1,2-Dichloroethene	156-60-5	0.4
1,1-Dichloroethane	75-34-3	0.4
2,2-Dichloropropane	594-20-7	0.4
cis-1,2-Dichloroethene	156-59-2	0.4
Bromochloromethane	74-97-5	0.4
Chloroform	67-66-3	0.08
1,1,1-Trichloroethane	71-55-6	0.4
1,1-Dichloropropene	563-58-6	0.4
Carbon tetrachloride	56-23-5	0.08
1,2-Dichloroethane (EDC)	107-06-2	0.08
Benzene	71-43-2	0.08
Trichloroethene	79-01-6	0.08
1,2-Dichloropropane	78-87-5	0.4
Dibromomethane	74-95-3	0.4
Bromodichloromethane	75-27-4	0.4
cis-1,3-Dichloropropene	10061-01-5	0.4
Toluene	108-88-3	0.8
trans-1,3-Dichloropropene	10061-02-6	0.4
1,1,2-Trichloroethane	79-00-5	0.4
1,3-Dichloropropane	142-28-9	0.4
Tetrachloroethene	127-18-4	0.08
Dibromochloromethane	124-48-1	0.4
1,2-Dibromoethane (EDB)	106-93-4	0.4
Chlorobenzene	108-90-7	0.08
1,1,1,2-Tetrachloroethane	630-20-6	0.4
Ethylbenzene	100-41-4	0.4
m,p-Xylene	179601-23-1	0.4
o-Xylene	95-47-6	0.4
Styrene	100-42-5	0.4
Bromoform	75-25-2	0.4
Isopropylbenzene (Cumene)	98-82-8	0.4
1,1,2,2-Tetrachloroethane	79-34-5	0.4
n-Propylbenzene	103-65-1	0.4
1,2,3-Trichloropropane	96-18-4	0.4

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
Field Office in Signal Hill, CA (Los Angeles)
Ph: 800-834-9888 www.handpmg.com

H&P Method 8260SV (Modified EPA 8260B)
VOCs + Oxy + TPHg

Compound	*CAS #*	*Low RL* Vapor (µg/L)*
Bromobenzene	108-86-1	0.4
2-Chlorotoluene	95-49-8	0.4
1,3,5-Trimethylbenzene	108-67-8	0.4
4-Chlorotoluene	106-43-4	0.4
tert-Butylbenzene	98-06-6	0.4
1,2,4-Trimethylbenzene	95-63-6	0.4
sec-Butylbenzene	135-98-8	0.4
p-Isopropyltoluene	99-87-6	0.4
1,3-Dichlorobenzene	541-73-1	0.4
1,4-Dichlorobenzene	106-46-7	0.4
n-Butylbenzene	104-51-8	0.4
1,2-Dichlorobenzene	95-50-1	0.4
1,2-Dibromo-3-chloropropane	96-12-8	4.0
1,2,4-Trichlorobenzene	120-82-1	0.4
Hexachlorobutadiene	87-68-3	0.4
Naphthalene	91-20-3	0.08
1,2,3-Trichlorobenzene	87-61-6	0.4
Leak Check Compound		
1,1-Difluoroethane (LCC)	75-37-6	0.4
Oxygenates		
Methyl tertiary-butyl ether (MTBE)	1634-04-4	0.4
Diisopropyl ether (DIPE)	108-20-3	0.8
Ethyl tertiary-butyl ether (ETBE)	637-92-3	0.8
Tertiary-amyl methyl ether (TAME)	994-05-8	0.8
Tertiary-butyl alcohol (TBA)	75-65-0	4
Leak Check Compound		
1,1-Difluoroethane (LCC)	75-37-6	0.4

**NOTE: Low RLs can be achieved using a 25cc large volume injection -*

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: 160505AK16-L6 Date: 5/4/16

Site Address: 1726 S. Magnolia Ave Page: 1 of 2

Consultant: SCS Engineers H&P Rep(s): Tam

Consultant Rep(s): Chris

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: TG
Pump ID#: OR

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

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV10-5	150	5cc	7:24	5	7	1/8	12	1.5	12	1.5	✓	✓	958	200	4.49	200	0
2	SV10-15	218	5cc	7:47	15	17	1/8	12	1.5	12	1.5	✓	✓	986	200	4.56	200	0
3	SV9-5	154	5cc	8:03	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3.29	200	0
4	SV9-5 Rep	109	5cc	8:04	5	7	1/8	12	1.5	6	1.5	✓	✓	747	200	-	200	0
5	SV8-5	226	5cc	8:35	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3.29	200	0
6	SV7-5	232	5cc	9:02	5	7	1/8	12	1.5	12	1.5	✓	✓	958	200	4.47	200	0
7	SV7-15	197	5cc	9:15	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3.38	200	0
8	SV4-5	179	5cc	9:49	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	-	200	0
9	SV6-5	150	5cc	10:04	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	-	200	0
10	SV1-5	218	5cc	10:30	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	-	200	0
11	SV2-5	154	5cc	10:56	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	-	200	0
12	SV2-15	109	5cc	11:27	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	-	200	0

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

H&P Mobile Geochemistry Inc.

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS050416-L6 Date: 5/4/16

Site Address: 1726 S. Magnolia Ave Page: 2 of 2

Consultant: SCS Engineers H&P Rep(s): Tam

Consultant Rep(s): Chris

Reviewed: DB

Scanned: DB

Equipment Info
Inline Gauge ID#: T17
Pump ID#: 012

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

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☒ Hg ☐ H_2O
1	SV3-5	226	50cc	12:00	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	-	200	0
2	SV5-5	237	50cc	12:42	5	7	1/8	12	.75	6	.75	✓	✓	189	200	-	200	0
3	SV11-5	197	50cc	13:17	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	-	200	0
4	SV12-5	179	50cc	13:51	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	-	200	0
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):

APPENDIX D

CHEMTEK LABORATORY REPORT

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention:

Project No. 01215043.01
Project Site: 1726 S. Magnolia

Job No: 605012
Report Date: 05/11/16
Date Received: 05/03/16
Number of Samples: 11
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB1-1	05/03/16	605012-01A
SB1-5	05/03/16	605012-02A
SB1-10	05/03/16	605012-03A
SB2-1	05/03/16	605012-04A
SB2-5	05/03/16	605012-05A
SB2-10	05/03/16	605012-06A
SB3-1	05/03/16	605012-07A
SB3-5	05/03/16	605012-08A
SB3-10	05/03/16	605012-09A
SB3-15	05/03/16	605012-10A
SB3-20	05/03/16	605012-11A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605012
Project Site: 1726 S. Magnolia **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01215043.01	SB1-5	5/3/2016	SB2-5	5/3/2016

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TBA	ND	µg/kg	1.1	22	ND	µg/kg	1	20
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1	10
Acetone	ND	µg/kg	1.1	55	70	µg/kg	1	50
Analysis Date:	05/06/16				05/06/16			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605012

Project Site: 1726 S. Magnolia **Matrix:** Soil

Project No. 01215043.01

Sample ID	Sample Date
SB3-20	5/3/2016

Analyte	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	0.9	18
MEK	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	0.9	9
Acetone	55	µg/kg	0.9	45

Analysis Date: 05/09/16

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: 1726 S. Magnolia
Project No: 01215043.01

EPA Method: 8015M
units: mg/kg or ppm

Job No: 605012
Report Date: 05/11/16
Date of Sample: 05/03/16
Date Received: 05/03/16
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB1-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB2-5	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB3-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB3-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Sample Date:		05/03/16			05/03/16			05/03/16		
Analysis Date:		05/06,09/16			05/09/16			05/09/16		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: 1726 S. Magnolia
Project No: 01215043.01

Job No: 605012
Report Date: 05/11/16
Date of Sample: 05/03/16
Date Received: 05/03/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB1-1	SB1-5	SB2-1	SB2-5	SB3-1	Detection
Dilution Factor:	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	2.0
Arsenic	ND	ND	ND	ND	ND	2.0
Barium	80.6	47.5	60.8	59.3	66.3	1.0
Beryllium	ND	ND	ND	ND	ND	1.0
Cadmium	ND	ND	ND	ND	ND	1.0
Chromium	20.2	15.4	18.5	17.2	19.4	1.0
Cobalt	13.1	11.1	11.9	12.0	12.5	2.0
Copper	22.9	17.6	20.3	19.1	20.7	2.0
Lead	8.71	3.95	6.01	3.78	6.04	2.0
Molybdenum	ND	ND	ND	ND	ND	2.0
Nickel	17.1	14.2	14.6	5.32	15.8	2.0
Selenium	ND	ND	ND	ND	ND	2.0
Silver	ND	ND	ND	ND	ND	1.0
Thallium	ND	ND	ND	ND	ND	2.0
Vanadium	46.3	29.9	41.6	38.1	40.2	2.0
Zinc	55.1	37.1	48.5	41.2	56.6	5.0
Analysis Date:	5/10/16	5/10/16	5/10/16	5/10/16	5/10/16	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB1-1	SB1-5	SB2-1	SB2-5	SB3-1	Detection
Dilution Factor:	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	0.05
Analysis Date:	5/10/16	5/10/16	5/10/16	5/10/16	5/10/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 05/06/16
QC Lab ID: 605012-2A
Units: ppb
Job No: 605012

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	111.0	109.9	1.0%	30	70-130
Benzene	ND	25	93.4	91.8	1.7%	30	70-130
Trichloroethylene	ND	25	102.5	101.2	1.3%	30	70-130
Toluene	ND	25	93.9	90.5	3.7%	30	70-130
Chlorobenzene	ND	25	92.1	88.5	4.0%	30	70-130

QC Analysis Date: 05/06/16
QC Lab ID: 605012-5A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	100.4	96.3	4.2%	30	70-130

QC Analysis Date: 05/09/16
QC Lab ID: 605012-2A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	100	112.4	121.0	7.4%	30	70-130

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 05/10/16
QC Lab ID: 605012-1A
Units: ppm
Job No: 605012

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	100.0	106.0	5.8%	30	70-130
Arsenic	ND	1.00	106.0	111.0	4.6%	30	70-130
Barium	ND	1.00	99.0	101.0	2.0%	30	70-130
Beryllium	ND	1.00	106.0	108.0	1.9%	30	70-130
Cadmium	ND	1.00	100.0	104.0	3.9%	30	70-130
Chromium	ND	1.00	99.0	105.0	5.9%	30	70-130
Cobalt	ND	1.00	98.9	101.0	2.1%	30	70-130
Copper	ND	1.00	99.0	100.0	1.0%	30	70-130
Lead	ND	1.00	100.0	106.0	5.8%	30	70-130
Molybdenum	ND	1.00	100.0	105.0	4.9%	30	70-130
Nickel	ND	1.00	103.0	104.0	1.0%	30	70-130
Selenium	ND	1.00	100.0	101.0	1.0%	30	70-130
Silver	ND	1.00	113.0	106.0	6.4%	30	70-130
Thallium	ND	1.00	98.0	103.0	5.0%	30	70-130
Vanadium	ND	1.00	100.0	106.0	5.8%	30	70-130
Zinc	ND	1.00	99.0	103.0	4.0%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

605012

Job No.: 012/5043.01

Page: of

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: J. Rauzon Email: Jrauzon@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.
SITE ADDRESS: 1724 S. Magnolia
SAMPLED BY: C. Romanowski EDF Turn Around Time NORM [X] 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	SB1 - 4	5/3/16	11:11am	SO													X					
2	SB1-5	"	1115	"							X	X					X					
3	SB1-10		1117																			
4	SB 2-1		1025														X					
5	SB2-5		1029								X	X					X					
6	SB2-10		1033																			
7	SB 3-1		1406														X					
8	SB 3-5		1409																			
9	SB3-10		1412																			
10	SB 3-15		1417								X											
11	SB3-20		1425								X	X										
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	5/3/16	415pm
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Chemtek	5/3/16	

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention:

Project No. 01215043.01
Project Site: 1726 S. Magnolia

Job No: 605018
Report Date: 05/11/16
Date Received: 05/04/16
Number of Samples: 30
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB4-1	05/04/16	605018-01A
SB4-5	05/04/16	605018-02A
SB4-10	05/04/16	605018-03A
SB4-15	05/04/16	605018-04A
SB4-20	05/04/16	605018-05A
SB5-1	05/04/16	605018-06A
SB5-5	05/04/16	605018-07A
SB5-10	05/04/16	605018-08A
SB5-15	05/04/16	605018-09A
SB5-20	05/04/16	605018-10A
SB6-1	05/04/16	605018-11A
SB6-5	05/04/16	605018-12A
SB6-10	05/04/16	605018-13A
SB6-15	05/04/16	605018-14A
SB6-20	05/04/16	605018-15A
SB7-1	05/04/16	605018-16A
SB7-5	05/04/16	605018-11A
SB7-10	05/04/16	605018-18A
SB7-15	05/04/16	605018-19A
SB7-20	05/04/16	605018-20A
SB8-1	05/04/16	605018-21A
SB8-5	05/04/16	605018-22A
SB8-10	05/04/16	605018-23A
SB8-15	05/04/16	605018-24A
SB8-20	05/04/16	605018-25A
SB9-1	05/04/16	605018-26A
SB9-5	05/04/16	605018-27A
SB9-10	05/04/16	605018-28A
SB9-15	05/04/16	605018-29A
SB9-20	05/04/16	605018-30A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605018
Project Site: 1726 S. Magnolia **Matrix:** Soil
Project No. 01215043.01

	Sample ID	Sample Date	Sample ID	Sample Date
	SB4-20	5/4/2016	SB5-20	5/4/2016

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	1	250	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	1	1	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	1	20	ND	µg/kg	0.9	18
MEK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	1	10	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	0.9	9
Acetone	ND	µg/kg	1	50	62	µg/kg	0.9	45
Analysis Date:	05/09/16				05/09/16			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605018
Project Site: 1726 S. Magnolia **Matrix:** Soil
Project No. 01215043.01

	Sample ID	Sample Date	Sample ID	Sample Date
	SB6-10	5/4/2016	SB6-15	5/4/2016

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	20	ND	µg/kg	1	20
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	62	µg/kg	1	50	74	µg/kg	1	50
Analysis Date:	05/09/16				05/09/16			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605018
Project Site: 1726 S. Magnolia **Matrix:** Soil
Project No. 01215043.01

	Sample ID	Sample Date	Sample ID	Sample Date
	SB6-20	5/4/2016	SB7-10	5/4/2016

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	20	ND	µg/kg	1	20
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	05/09/16				05/10/16			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605018
Project Site: 1726 S. Magnolia **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No. 01215043.01	SB7-15	5/4/2016	SB8-10	5/4/2016

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	20	ND	µg/kg	1	20
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	ND	µg/kg	1	50	ND	µg/kg	1	50
Analysis Date:	05/10/16				05/10/16			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605018
Project Site: 1726 S. Magnolia **Matrix:** Soil
Project No. 01215043.01

	Sample ID	Sample Date	Sample ID	Sample Date
	SB8-15	5/4/2016	SB9-10	5/4/2016

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	20	ND	µg/kg	1	20
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Acetone	52	µg/kg	1	50	51	µg/kg	1	50
Analysis Date:	05/10/16				05/10/16			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 605018

Project Site: 1726 S. Magnolia **Matrix:** Soil

Project No. 01215043.01

Sample ID	Sample Date
SB9-15	5/4/2016

Analyte	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	0.9	0.9
Ethylbenzene	ND	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	0.9	4.5
Naphthalene	ND	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9
Toluene	ND	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	0.9	0.9
Total Xylenes	ND	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	0.9	225
MTBE	ND	µg/kg	0.9	0.9
ETBE	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	0.9	18
MEK	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	0.9	9
Acetone	55	µg/kg	0.9	45

Analysis Date: 05/10/16

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: 1726 S. Magnolia
Project No: 01215043.01

EPA Method: 8015M
units: mg/kg or ppm

Job No: 605018
Report Date: 05/11/16
Date of Sample: 05/04/16
Date Received: 05/04/16
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB4-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB4-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB5-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB5-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB6-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB6-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB6-20	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB7-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB7-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB8-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB8-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB9-10	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
SB9-15	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.2	ND	1	5.0	ND	1	10
Sample Date:		05/04/16			05/04/16			05/04/16		
Analysis Date:		05/09,10/16			5/09-10/16			5/09-10/16		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: 1726 S. Magnolia
Project No: 01215043.01

Job No: 605018
Report Date: 05/11/16
Date of Sample: 05/04/16
Date Received: 05/04/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB4-1	SB5-1	SB6-1	SB7-1	SB8-1	SB9-1	Detection
Dilution Factor:	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	2.0
Arsenic	ND	ND	ND	ND	ND	ND	2.0
Barium	70.4	73.1	60.6	65.4	52.1	53.7	1.0
Beryllium	ND	ND	ND	ND	ND	ND	1.0
Cadmium	ND	ND	ND	ND	ND	ND	1.0
Chromium	17.1	17.1	17.2	18.9	16.2	16.8	1.0
Cobalt	11.7	11.6	12.9	12.4	10.6	10.8	2.0
Copper	18.9	20.5	19.7	21.3	18.4	23.9	2.0
Lead	2.55	9.46	3.50	4.25	2.02	3.05	2.0
Molybdenum	ND	ND	ND	ND	ND	ND	2.0
Nickel	15.1	13.9	15.2	15.6	13.7	14.7	2.0
Selenium	ND	ND	ND	ND	ND	ND	2.0
Silver	ND	ND	ND	ND	ND	ND	1.0
Thallium	ND	ND	ND	ND	ND	ND	2.0
Vanadium	37.9	37.7	37.2	41.5	34.7	35.3	2.0
Zinc	43.6	50.3	41.9	45.3	37.9	41.7	5.0
Analysis Date:	5/10/16	5/10/16	5/10/16	5/10/16	5/10/16	5/10/16	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB4-1	SB5-1	SB6-1	SB7-1	SB8-1	SB9-1	Detection
Dilution Factor:	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	5/10/16	5/10/16	5/10/16	5/10/16	5/10/16	5/10/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 05/09/16
QC Lab ID: 605018-5A
Units: ppb
Job No: 605018

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	113.7	112.4	1.1%	30	70-130
Benzene	ND	25	96.4	95.4	1.0%	30	70-130
Trichloroethylene	ND	25	105.9	104.4	1.4%	30	70-130
Toluene	ND	25	93.5	91.3	2.4%	30	70-130
Chlorobenzene	ND	25	94.0	87.8	6.8%	30	70-130

QC Analysis Date: 05/09/16
QC Lab ID: 605018-10A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	98.4	92.3	6.4%	30	70-130

QC Analysis Date: 05/09/16
QC Lab ID: 605012-2A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	100	112.4	121.0	7.4%	30	70-130

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

QC Analysis Date: 05/10/16
QC Lab ID: 605012-1A
Units: ppm
Job No: 605018

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	100.0	106.0	5.8%	30	70-130
Arsenic	ND	1.00	106.0	111.0	4.6%	30	70-130
Barium	ND	1.00	99.0	101.0	2.0%	30	70-130
Beryllium	ND	1.00	106.0	108.0	1.9%	30	70-130
Cadmium	ND	1.00	100.0	104.0	3.9%	30	70-130
Chromium	ND	1.00	99.0	105.0	5.9%	30	70-130
Cobalt	ND	1.00	98.9	101.0	2.1%	30	70-130
Copper	ND	1.00	99.0	100.0	1.0%	30	70-130
Lead	ND	1.00	100.0	106.0	5.8%	30	70-130
Molybdenum	ND	1.00	100.0	105.0	4.9%	30	70-130
Nickel	ND	1.00	103.0	104.0	1.0%	30	70-130
Selenium	ND	1.00	100.0	101.0	1.0%	30	70-130
Silver	ND	1.00	113.0	106.0	6.4%	30	70-130
Thallium	ND	1.00	98.0	103.0	5.0%	30	70-130
Vanadium	ND	1.00	100.0	106.0	5.8%	30	70-130
Zinc	ND	1.00	99.0	103.0	4.0%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

605018

Job No.: 01215 043.01

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: J Ruzon Email: J ruzon @ scsengineers.com

ADDRESS: 3900 Kilroy Airport way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS: 1726 S. Magnolia

SAMPLED BY: C. Romanowski ☐ EDF

Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 by Carbon Chain)	OXYGENATES (8260 by Carbon Chain)	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	SB4-1	5/4/16	942														X					
2	SB4-5		946																			
3	SB4-10		950																			
4	SB4-15		956																			
5	SB4-20		1003									X										
6	SB5-1		1251									X	X									
7	SB5-5		1253														X					
8	SB5-10		1258																			
9	SB5-15		1305																			
10	SB5-20		1334									X										
11	SB6-1		1103									X	X									
12	SB6-5		1105														X					
13	SB6-10		1108																			
14	SB6-15		1119									X	X									
15	SB6-20		1127									X	X									
16	SB7-1		1019									X	X									
																	X					

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C Romanowski	SCS Engineers	5/4/16	501pm
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin	Chemtek	5/4/16	501pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

605018

Job No.: 01 215 043.01

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: J. Rauzon Email: JRauzon@SCSengineers.com

ADDRESS: 3900 Gilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS: 1726 S. Magnolia

SAMPLED BY: C. Romanowski EDF

Turn Around Time NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals					
1	SB 7-5	5/4/11	1022																			
2	SB 7-10		1026								X	X										
3	SB 7-15		1033								X	X										
4	SB 7-20		1041																			
5	SB 8-1		1351												X		X					
6	SB 8-5		1358																			
7	SB 8-10		1400								X	X										
8	SB 8-15		1405								X	X										
9	SB 8-20		1410																			
10	SB 9-1		1426												X		X					
11	SB 9-5		1432																			
12	SB 9-10		1436								X	X										
13	SB 9-15		1442								X	X										
14	SB 9-20		1458																			
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	5/4/11	500 pm
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mwh	Chemtek	5/4/11	500pm

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other