

## **APPENDIX C**

# **PHASE I ENVIRONMENTAL SITE ASSESSMENT AND PHASE II SOIL VAPOR SITE INVESTIGATION**

# PHASE II SITE INVESTIGATION REPORT

4101 Long Beach Boulevard

Long Beach, California 90807

Assessor's Parcel Number (APN): 7139-015-010 and -017

City of Long Beach

c/o Overland, Pacific & Cutler, LLC

3750 Schauffele Avenue, Suite 150

Long Beach, California 90808

**SCS ENGINEERS**

Project No. 01220209.00 T2 | November 10, 2020

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This Phase II Site Investigation Report dated November 10, 2020 for 4101 Long Beach Boulevard, Long Beach, California was prepared and reviewed by the following:



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Edward de Souza  
Associate Professional  
**SCS ENGINEERS**



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Justin Rauzon, REPA  
Project Manager  
**SCS ENGINEERS**



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Jeffrey T. Sieg, PG  
Project Manager  
**SCS ENGINEERS**

## DISCLAIMER

This report has been prepared for Overland, Pacific & Cutler, LLC, on behalf of the City of Long Beach, with specific application to a soil vapor investigation conducted at 4101 Long Beach Boulevard, Long Beach, California. This 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 Overland, Pacific & Cutler, LLC, on behalf of the City of Long Beach, to conduct a soil vapor investigation at 4101 Long Beach Boulevard, Long Beach, California (the "Property"). Investigation activities were conducted in accordance with SCS's proposal dated October 8, 2020 (Proposal No. 010958220). A map showing the location of the Property is provided as **Figure 1**.

# 2 GENERAL BACKGROUND

SCS prepared a Phase I Environmental Site Assessment (Phase I ESA) for the Property, dated October 7, 2020 (SCS Project No. 01220209.00). The Property is located on the west side of Long Beach Boulevard, northwest of the intersection with East Randolph Place. It comprises approximately 0.4 acres and developed with a single-story, 4,246-square-foot office building and associated parking lot. Catalina Adventure Tours, a travel and tourism service is the current tenant at the Property. During the course of the Phase I ESA, SCS found no releases or environmental concerns associated with past activities conducted at the Property. However, several sites surrounding the Property were identified as potential environmental concerns, specifically with respect to potential for vapor encroachment and intrusion into on-site and future structures. The following itemizes the concerns for nearby sites:

- Historical address 4115 Long Beach Boulevard (adjacent to north, across alley) appeared in EDR Database report as a historical cleaners in 1948.
- Historical address 4121 Long Beach Boulevard (adjacent to north, across alley) appeared in EDR database report as a historical service station in 1935 to 1939.
- Historical address 4125 Long Beach Boulevard (approximately 75-100 feet north) appears in EDR database report and/or city directories as a historical cleaners from 1991 to 1995 (No Air Quality Management District (AQMD) records for this address).
- Historical address 4143/4145 Long Beach Boulevard (approximately 240 feet north) appears in EDR database report, city directories, and/or AQMD records as historical cleaners with documented tetrachloroethene (PCE) equipment from at least 1994 through 2007, with conversion from PCE to non-PCE equipment in 2007. During the course of the Phase I ESA, SCS identified the following environmental issues of concern:

The historical presence of these activities to the north (upgradient of the Property) constitutes a vapor encroachment concern (VEC), due to the potential for migration of contaminants onto the Property, and consequently, a recognized environmental condition (REC).

Based on the findings of the Phase I ESA report, SCS recommended a soil vapor investigation to evaluate potential for volatile organic compound (VOC) migration to the Property from current and/or past off-site operations.

# 3 PHYSICAL SETTING

## PHYSIOGRAPHIC SETTING

According to the U.S. Geological Survey (USGS), Long Beach, California, 7.5-minute topographical series map (1964, photorevised 1981), the Property is located at an elevation of approximately 110 feet above mean sea level (msl). The general area consists of small hills (Los Cerritos). Local topography is relatively flat with a gentle slope to the northeast. The Los Angeles River is located

approximately 0.80 miles west of the Property. The historic Rancho Los Cerritos and Virginia Country Club are situated approximately 0.15 miles to the north-northwest.

## GEOLOGY AND SOILS

Geologic maps indicate that surface sediments in this area consist of the Pleistocene-age Lakewood Formation, which is comprised of unconsolidated marine and continental deposits. In the area of the Property, surface deposits are primarily fine-grained sediments comprised of sands, silts, and clays. The Lakewood Formation is underlain by at least several thousand feet of mostly marine sediments of Tertiary age. According to information reviewed on the California State Water Resources Control Board's (SWRCB) GeoTracker website for the Former Unocal #2033 station (4155 Long Beach Boulevard, located approximately 400 feet to the north; Global ID: T0603701869), layers of fine- to coarse-grained sands, sand and silt mixtures, and mixtures of silt and clay were encountered to depths of at least 65 feet below ground surface (bgs).

## GROUNDWATER

The Property is located in the southern portion of the Central Groundwater Basin of the Los Angeles Coastal Plain. Bulletin 104, Appendix A of the California Department of Water Resources dated June 1961, indicates that first groundwater in the vicinity of the Property may be within the Gaspar Aquifer at approximately 40-50 feet below grade. The Lakewood Formation in this area includes the Exposition-Artesia and Gage Aquifers, at depths of 200 to 400 feet below grade. Information reviewed for nearby sites on the GeoTracker website, including the Former Unocal #2033 site, indicated that perched groundwater may be encountered in the vicinity of the Property at depths of approximately 30 feet bgs; however, these perched layers are discontinuous and of limited aerial extent. Groundwater flow direction at the Former Unocal #2033 station site was reported to be towards the south-southwest. Based on proximity, similar groundwater flow direction would be anticipated beneath the Property. However, because the Property is located near the Long Beach Anticline and the Cherry Hill fault, groundwater flow directions may vary and can be difficult to predict.

## 4 SITE INVESTIGATION AND ANALYTICAL RESULTS

### SUBSURFACE UTILITIES CLEARANCE

As required by law, SCS marked areas of investigation and contacted Underground Service Alert prior to conducting any subsurface work (Dig Alert No. A202870738). On October 20, 2020, Goldak, Inc. of Sylmar, California conducted a geophysical survey using electromagnetic survey equipment to clear proposed boring locations of subsurface utilities and/or structures.

### SOIL VAPOR SAMPLE COLLECTION

On October 20, 2020, under SCS' direction, H&P Mobile Geochemistry (H&P) of Carlsbad, California installed temporary soil vapor probes at 10 locations, designated SV1 through SV10. With the exception of three locations, temporary soil vapor probes were installed at five feet bgs. At locations SV6, SV8, and SV9, high vacuum was encountered in probes initially set at the 5-foot depth, therefore additional temporary probes were installed at 6 feet bgs at locations SV6 and SV9 and at 4 feet bgs at location SV8. Probe locations are depicted in **Figure 2**.

Vapor probes were installed using a rotohammer and hand tools. At each location, a steel rod was advanced to the target depth. The steel rod was then retracted and new (clean) 1/8-inch diameter

Nylaflo 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 and dry granular bentonite was placed approximately 6-inches above the sand pack. Hydrated bentonite was used to seal the annulus of the boring.

Soil vapor sampling was conducted in general accordance with the Advisory – Active Soil Gas Investigations, published by the California Environmental Protection Agency (CalEPA), Department of Toxic Substance Control (DTSC), Los Angeles Regional Water Quality Control Board (LARWQCB), and San Francisco Regional Water Quality Control Board (SFRWQCB) in July 2015 (the “Guidance”). Following a minimum equilibration period of 30 minutes, a shut-in test was conducted and then a leak-check compound (1,1-difluoroethane [1,1-DFA]) was placed at the surface while the tubing was purged to remove ambient air from the sampling system in order to ensure that the collected soil vapor sample was representative of subsurface conditions.

A total of 11 soil vapor samples (including one replicate sample from location SV8) were collected and analyzed for 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 United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP) to conduct the specified analysis. Chain-of custody documentation was completed to track the samples from the point of collection through analysis.

After all samples had been collected and the soil vapor analyses completed, the temporary probes were removed. Probe locations were backfilled with bentonite and patched to match the surrounding surface. No soil cuttings requiring disposal were generated during the field 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 A**. A summary of the soil vapor analytical results is presented in **Table 1**.

As summarized in **Table 1**, benzene was detected in soil vapor samples collected from nine of the ten probe locations at concentrations between 0.023 and 0.061 micrograms per liter ( $\mu\text{g/L}$ ). With the exception of the leak check compound (LCC [1,1-difluoroethane]), no other VOCs were detected at concentrations above the laboratory reporting limits. The LCC was detected in three of the analyzed soil vapor samples, but at concentrations low enough that the samples still met QA/QC requirements.

## 5 DISCUSSION OF ANALYTICAL RESULTS AND REGULATORY LIMITS

### VOCS IN SOIL VAPOR

The DTSC, Human and Ecological Risk Office (HERO) issued an updated Human Health Risk Assessment (HHRA) Note No. 3 in June 2020. In this Note, DTSC makes recommendations regarding the methodology and use of the U.S. EPA Regional Screening Levels (RSLs) and DTSC-modified screening levels (jointly referred to herein as “DTSC-Recommended SLs”) for soil vapor screening under residential and commercial/industrial land use scenarios. The DTSC-Recommended SLs for evaluating soil vapor intrusion are calculated using indoor air screening levels and recommended attenuation factors. The values calculated using Note No. 3 recommendations

are very conservative. Chemical concentrations in excess of the calculated DTSC-Recommended SLs are not conclusive evidence of adverse risks to human health. Depending on VOC concentrations and their distribution, 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.

As shown in **Table 1**, results of this investigation are compared to the DTSC-Recommended SLs under an existing commercial/industrial land use scenario using an attenuation factor of 0.001. Additionally, SCS understands that future development plans for the Property may include redevelopment of the Property for use as a fire station, therefore data collected during this assessment have also been compared to DTSC-Recommended SLs for future residential and/or commercial use scenarios using attenuation factors of 0.001 and 0.0005, respectively.

As stated, benzene was the only VOC detected in subsurface soil vapor. Benzene was detected at concentrations below DTSC-Recommended SL for both residential and commercial/industrial land use scenarios.

In the latest update to HERO Note No. 3, DTSC also recommended that screening assessments calculate soil vapor screening levels using the U.S. EPA recommended attenuation factor of 0.03 (based on June 2015 guidance) for sub-slab soil gas and “near-source” exterior soil gas. Use of this attenuation factor was also in the Public Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion released by DTSC and the California Water Resources Control Boards in February 2020. **Table 1** also includes DTSC-Recommended SLs “near-source” exterior soil gas samples using an attenuation factor of 0.03. These attenuation factors result in extremely conservative screening levels.

As shown, using the 0.03 attenuation factor, benzene was detected in 10 samples at concentrations above its corresponding DTSC-Recommended SLs under both residential and commercial/industrial land use scenarios. Note that the attenuation factor of 0.03 is based on limited studies of primarily residential homes with degraded concrete/basements and are not necessarily applicable to all sites and investigations. This attenuation factor would not apply for new development.

## 6 CONCLUSIONS AND RECOMMENDATIONS

On October 20, 2020, SCS conducted a soil vapor investigation at the Property. During this investigation, benzene was the only VOC detected in soil vapor. Benzene concentrations were low (below applicable screening levels), generally consistent throughout the Property, and do not represent a significant risk to human-health associated with vapor intrusion into buildings.

Based on the results of the investigation, SCS does not consider the offsite, upgradient sites to the north to be a VEC or REC. At this time, further investigation is not warranted or recommended.

## 7 REFERENCES

California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), April 2019. *Human Health Risk Assessment (HHRA) Note Number 3.*

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

California Department of Toxic Substances Control (DTSC) and California Water Resources Control Boards, February 2020. *Public Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion.*

California Department of Water Resources (CDWR), June 1964. Bulletin 104.

California Environmental Protection Agency (CalEPA) and California Department of Toxic Substances Control (DTSC), July 2015. *Advisory – Active Soil Gas Investigations.*

California Regional Water Quality Control Board (RWQCB), April 2019. *California Regulations Related to Drinking Water.*

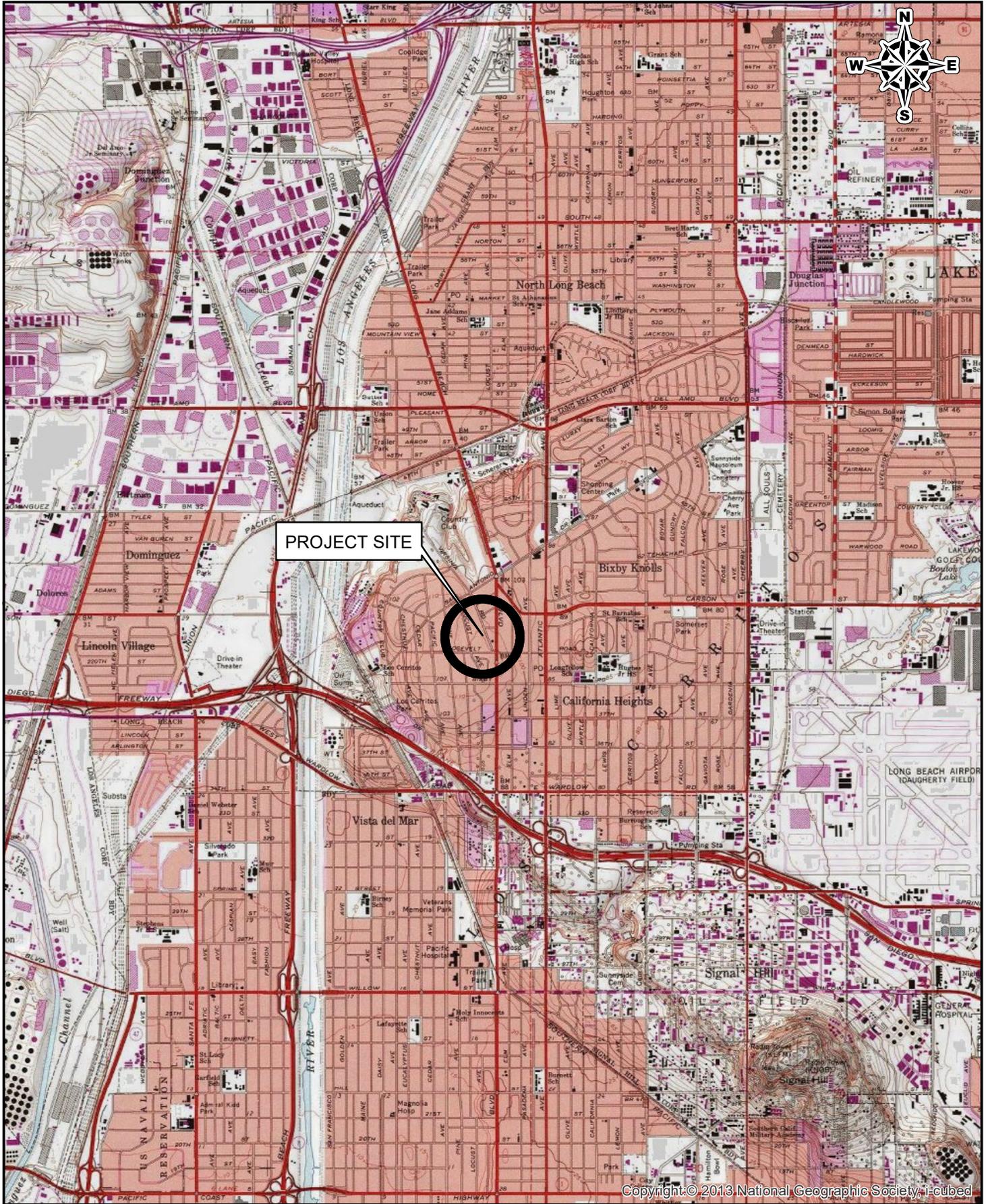
Los Angeles Regional Water Quality Control Board (LARWQCB). May 1996. *Interim Site Assessment and Cleanup Guidebook.*

SCS Engineers, October 7, 2020. *Phase I Environmental Site Assessment, 4101 Long Beach Boulevard, Long Beach, California 90807.*

U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, June 2015. *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air.*

U.S. EPA, November 2019. *Regional Screening Level (RSL) Summary Table.*

## Figures 1 and 2



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0 1,000,200 4,000  
Feet

**SCS ENGINEERS**

3900 KILROY AIRPORT WAY, SUITE 100  
LONG BEACH, CALIFORNIA 90806

SITE:

4101 Long Beach Boulevard  
Long Beach, California 90807

Job No.: 01220209.00

Title: SITE LOCATION MAP

FIGURE

1

\\lbs-6501\DATA\PROJECTS\01220209.00\Task 2\Phase II\Figure.dwg Nov 10, 2020 - 6:11pm By: 2706/ls



**LEGEND**

- - - PROPERTY LINE
- ▲ SOIL VAPOR PROBE LOCATION

SV1-5



GRAPHIC SCALE



SCALE IN FEET

**SCS ENGINEERS**  
**ENVIRONMENTAL CONSULTANTS**

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 LONG BEACH, CA 90806  
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CLIENT:

CITY OF LONG BEACH  
 C/O OVERLAND, PACIFIC & CUTLER, LLC  
 3750 SCHAUFLE AVENUE, SUITE 150  
 LONG BEACH, CALIFORNIA 90808

SHEET TITLE:

AERIAL IMAGE SHOWING SOIL VAPOR  
 SAMPLE LOCATIONS

DATE:

NOVEMBER 2020

SCALE:

1" = 30'

PROJECT TITLE:

4101 LONG BEACH BOULEVARD  
 LONG BEACH, CALIFORNIA 90807

FIGURE NO.

**2**

PROD. NO. 01220209.00 T2	DWN. BY: E. DESOUZA	ACAD FILE:
DSN. BY: E. DESOUZA	CHK. BY: J. RAUZOZ	APP. BY: J. RAUZOZ

## Table 1

**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES**  
**4101 LONG BEACH BOULEVARD**  
**LONG BEACH, CALIFORNIA 90807**

Sample Number	Sample Depth (feet bgs)	Sampling Date	Volatile Organic Compound (EPA Method 8260SV)	
			Benzene	1,1-Difluoroethane (LCC)
			Micrograms per liter (µg/l)	
SV1	5	10/20/20	<b>0.036</b>	<b>0.28</b>
SV2	5		<b>0.024</b>	<b>0.23</b>
SV3	5		<b>0.023</b>	<0.10
SV4	5		<b>0.037</b>	<0.10
SV5	5		<b>0.061</b>	<0.10
SV6	6		<b>0.028</b>	<0.10
SV7	5		<0.020	<b>0.27</b>
SV8	4/4R		<b>0.030/0.027</b>	<0.10/<0.10
SV9	6		<b>0.049</b>	<0.10
SV10	5		<b>0.026</b>	<0.10
DTSC-Recommended SL (Existing Commercial/Industrial) - AF 0.001			0.42	--
DTSC-Recommended SL (Future Residential) - AF 0.001			0.10	--
DTSC-Recommended SL (Future Commercial/Industrial) - AF 0.0005			0.84	--
DTSC-Recommended SL (Residential) - AF 0.03			0.003	--
DTSC-Recommended SL (Commercial/Industrial) - AF 0.03			0.010	--

**Notes:**

bgs = below ground surface

AF = Attenuation factor

LCC = Leak Check Compound

R = replicate sample collected for quality assurance and quality control (QA/QC)

DTSC-Recommended SL = Screening Level for 5-foot samples 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 - Commercial/industrial land use scenarios at an existing and future building (June 2020, Referencing U.S. Environmental Protection Agency Regional Screening Level

Appendix A  
H&P Laboratory Report

27 October 2020

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

H&P Project: SCS102020-SB2  
Client Project: 4101 Long Beach Blvd

Dear 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 20-Oct-20 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,



Lisa Eminhizer  
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H&P is approved as an Environmental Testing Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency. Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: [www.handpmg.com/about/certifications](http://www.handpmg.com/about/certifications). Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.



SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV1-5	E010068-01	Vapor	20-Oct-20	20-Oct-20
SV2-5	E010068-02	Vapor	20-Oct-20	20-Oct-20
SV3-5	E010068-03	Vapor	20-Oct-20	20-Oct-20
SV4-5	E010068-04	Vapor	20-Oct-20	20-Oct-20
SV5-5	E010068-05	Vapor	20-Oct-20	20-Oct-20
SV7-5	E010068-06	Vapor	20-Oct-20	20-Oct-20
SV6-6	E010068-07	Vapor	20-Oct-20	20-Oct-20
SV8-4	E010068-08	Vapor	20-Oct-20	20-Oct-20
SV8-4 REP	E010068-09	Vapor	20-Oct-20	20-Oct-20
SV9-6	E010068-10	Vapor	20-Oct-20	20-Oct-20
SV10-5	E010068-11	Vapor	20-Oct-20	20-Oct-20

SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

**DETECTIONS SUMMARY**

Sample ID: **SV1-5**

Laboratory ID: **E010068-01**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>1,1-Difluoroethane (LCC)</b>	<b>0.28</b>	0.10	ug/l	H&P 8260SV	
<b>Benzene</b>	<b>0.036</b>	0.020	ug/l	H&P 8260SV	

Sample ID: **SV2-5**

Laboratory ID: **E010068-02**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>1,1-Difluoroethane (LCC)</b>	<b>0.23</b>	0.10	ug/l	H&P 8260SV	
<b>Benzene</b>	<b>0.024</b>	0.020	ug/l	H&P 8260SV	

Sample ID: **SV3-5**

Laboratory ID: **E010068-03**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>Benzene</b>	<b>0.023</b>	0.020	ug/l	H&P 8260SV	

Sample ID: **SV4-5**

Laboratory ID: **E010068-04**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>Benzene</b>	<b>0.037</b>	0.020	ug/l	H&P 8260SV	

Sample ID: **SV5-5**

Laboratory ID: **E010068-05**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>Benzene</b>	<b>0.061</b>	0.020	ug/l	H&P 8260SV	

Sample ID: **SV7-5**

Laboratory ID: **E010068-06**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>1,1-Difluoroethane (LCC)</b>	<b>0.27</b>	0.10	ug/l	H&P 8260SV	

Sample ID: **SV6-6**

Laboratory ID: **E010068-07**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
<b>Benzene</b>	<b>0.028</b>	0.020	ug/l	H&P 8260SV	

Sample ID: **SV8-4**

Laboratory ID: **E010068-08**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			

SCS Engineers - Long Beach 3900 Kilroy Airport Way, Suite 100 Long Beach, CA 90806-6816	Project: SCS102020-SB2 Project Number: 4101 Long Beach Blvd Project Manager: Justin Rauzon	Reported: 27-Oct-20 12:36
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Sample ID: <b>SV8-4</b>		Laboratory ID: <b>E010068-08</b>			
Analyte	Result	Reporting Limit	Units	Method	Notes
<b>Benzene</b>	<b>0.030</b>	0.020	ug/l	H&P 8260SV	

Sample ID: <b>SV8-4 REP</b>		Laboratory ID: <b>E010068-09</b>			
Analyte	Result	Reporting Limit	Units	Method	Notes
<b>Benzene</b>	<b>0.027</b>	0.020	ug/l	H&P 8260SV	

Sample ID: <b>SV9-6</b>		Laboratory ID: <b>E010068-10</b>			
Analyte	Result	Reporting Limit	Units	Method	Notes
<b>Benzene</b>	<b>0.049</b>	0.020	ug/l	H&P 8260SV	

Sample ID: <b>SV10-5</b>		Laboratory ID: <b>E010068-11</b>			
Analyte	Result	Reporting Limit	Units	Method	Notes
<b>Benzene</b>	<b>0.026</b>	0.020	ug/l	H&P 8260SV	

SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV1-5 (E010068-01) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	<b>0.28</b>	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.036</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

SCS Engineers - Long Beach  
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Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV1-5 (E010068-01) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	91.0 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	94.5 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8	94.3 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	75-125	"	"	"	"	"	"

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Reported:  
27-Oct-20 12:36

**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV2-5 (E010068-02) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	<b>0.23</b>	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.024</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV2-5 (E010068-02) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>	95.8 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>	95.5 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	104 %	75-125	"	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV3-5 (E010068-03) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.023</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV3-5 (E010068-03) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>	94.3 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>	96.9 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	75-125	"	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV4-5 (E010068-04) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.037</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV4-5 (E010068-04) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	93.0 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	96.1 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8	91.6 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	75-125	"	"	"	"	"	"

SCS Engineers - Long Beach  
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Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV5-5 (E010068-05) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.061</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV5-5 (E010068-05) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	89.9 %	75-125	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	96.9 %	75-125	"	"	"	"	"
Surrogate: Toluene-d8	93.8 %	75-125	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	75-125	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV7-5 (E010068-06) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	0.27	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
Benzene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV7-5 (E010068-06) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	100 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	102 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8	92.8 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	75-125	"	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV6-6 (E010068-07) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.028</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV6-6 (E010068-07) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	95.1 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	92.6 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8	94.5 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	75-125	"	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV8-4 (E010068-08) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.030</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

SCS Engineers - Long Beach  
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Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV8-4 (E010068-08) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	101 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	111 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8	95.7 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	75-125	"	"	"	"	"	"

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Reported:  
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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV8-4 REP (E010068-09) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.027</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV8-4 REP (E010068-09) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	99.5 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	105 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8	95.1 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	75-125	"	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV9-6 (E010068-10) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.049</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV9-6 (E010068-10) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>	94.2 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.4 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>	92.3 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	99.2 %	75-125	"	"	"	"	"	"

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV10-5 (E010068-11) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.010	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.020	"	"	"	"	"	"	
<b>Benzene</b>	<b>0.026</b>	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	

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**Volatile Organic Compounds by H&P 8260SV**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV10-5 (E010068-11) Vapor Sampled: 20-Oct-20 Received: 20-Oct-20</b>									
o-Xylene	ND	0.10	ug/l	0.01	EJ02010	20-Oct-20	20-Oct-20	H&P 8260SV	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.020	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>	<i>101 %</i>	<i>75-125</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>115 %</i>	<i>75-125</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>	<i>95.8 %</i>	<i>75-125</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.8 %</i>	<i>75-125</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ02010 - EPA 5030**

Prepared & Analyzed: 20-Oct-20

**Blank (EJ02010-BLK1)**

1,1-Difluoroethane (LCC)	ND	0.10	ug/l							
Dichlorodifluoromethane (F12)	ND	0.10	"							
Chloromethane	ND	0.10	"							
Vinyl chloride	ND	0.010	"							
Bromomethane	ND	0.10	"							
Chloroethane	ND	0.10	"							
Trichlorofluoromethane (F11)	ND	0.10	"							
1,1-Dichloroethene	ND	0.10	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.10	"							
Methylene chloride (Dichloromethane)	ND	0.10	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"							
trans-1,2-Dichloroethene	ND	0.10	"							
1,1-Dichloroethane	ND	0.10	"							
2,2-Dichloropropane	ND	0.10	"							
cis-1,2-Dichloroethene	ND	0.10	"							
Chloroform	ND	0.020	"							
Bromochloromethane	ND	0.10	"							
1,1,1-Trichloroethane	ND	0.10	"							
1,1-Dichloropropene	ND	0.10	"							
Carbon tetrachloride	ND	0.020	"							
1,2-Dichloroethane (EDC)	ND	0.020	"							
Benzene	ND	0.020	"							
Trichloroethene	ND	0.020	"							
1,2-Dichloropropane	ND	0.10	"							
Bromodichloromethane	ND	0.10	"							
Dibromomethane	ND	0.10	"							
cis-1,3-Dichloropropene	ND	0.10	"							
Toluene	ND	0.20	"							
trans-1,3-Dichloropropene	ND	0.10	"							
1,1,2-Trichloroethane	ND	0.10	"							
1,2-Dibromoethane (EDB)	ND	0.10	"							
1,3-Dichloropropane	ND	0.10	"							
Tetrachloroethene	ND	0.020	"							
Dibromochloromethane	ND	0.10	"							

SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ02010 - EPA 5030**

Prepared & Analyzed: 20-Oct-20

**Blank (EJ02010-BLK1)**

Chlorobenzene	ND	0.020	ug/l							
Ethylbenzene	ND	0.10	"							
1,1,1,2-Tetrachloroethane	ND	0.10	"							
m,p-Xylene	ND	0.10	"							
o-Xylene	ND	0.10	"							
Styrene	ND	0.10	"							
Bromoform	ND	0.10	"							
Isopropylbenzene (Cumene)	ND	0.10	"							
1,1,2,2-Tetrachloroethane	ND	0.10	"							
1,2,3-Trichloropropane	ND	0.10	"							
n-Propylbenzene	ND	0.10	"							
Bromobenzene	ND	0.10	"							
1,3,5-Trimethylbenzene	ND	0.10	"							
2-Chlorotoluene	ND	0.10	"							
4-Chlorotoluene	ND	0.10	"							
tert-Butylbenzene	ND	0.10	"							
1,2,4-Trimethylbenzene	ND	0.10	"							
sec-Butylbenzene	ND	0.10	"							
p-Isopropyltoluene	ND	0.10	"							
1,3-Dichlorobenzene	ND	0.10	"							
1,4-Dichlorobenzene	ND	0.10	"							
n-Butylbenzene	ND	0.10	"							
1,2-Dichlorobenzene	ND	0.10	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	0.10	"							
Hexachlorobutadiene	ND	0.10	"							
Naphthalene	ND	0.020	"							
1,2,3-Trichlorobenzene	ND	0.10	"							

Surrogate: Dibromofluoromethane	0.505		"	0.500		101	75-125			
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	75-125			
Surrogate: Toluene-d8	0.423		"	0.500		84.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.451		"	0.500		90.2	75-125			

SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ02010 - EPA 5030**

**LCS (EJ02010-BS1)**

Prepared & Analyzed: 20-Oct-20

Dichlorodifluoromethane (F12)	3.8	0.50	ug/l	5.00		76.7	70-130			
Vinyl chloride	4.4	0.050	"	5.00		88.4	70-130			
Chloroethane	4.4	0.50	"	5.00		87.3	70-130			
Trichlorofluoromethane (F11)	4.5	0.50	"	5.00		90.8	70-130			
1,1-Dichloroethene	4.4	0.50	"	5.00		87.5	70-130			
1,1,2-Trichlorotrifluoroethane (F113)	4.2	0.50	"	5.00		84.6	70-130			
Methylene chloride (Dichloromethane)	4.9	0.50	"	5.00		98.6	70-130			
trans-1,2-Dichloroethene	4.2	0.50	"	5.00		84.5	70-130			
1,1-Dichloroethane	4.3	0.50	"	5.00		86.7	70-130			
cis-1,2-Dichloroethene	5.0	0.50	"	5.00		99.9	70-130			
Chloroform	4.5	0.10	"	5.00		90.3	70-130			
1,1,1-Trichloroethane	4.7	0.50	"	5.00		94.0	70-130			
Carbon tetrachloride	4.2	0.10	"	5.00		83.1	70-130			
1,2-Dichloroethane (EDC)	5.1	0.10	"	5.00		102	70-130			
Benzene	4.2	0.10	"	5.00		84.5	70-130			
Trichloroethene	4.5	0.10	"	5.00		89.0	70-130			
Toluene	4.7	1.0	"	5.00		93.1	70-130			
1,1,2-Trichloroethane	5.6	0.50	"	5.00		113	70-130			
Tetrachloroethene	4.2	0.10	"	5.00		84.8	70-130			
Ethylbenzene	4.6	0.50	"	5.00		92.6	70-130			
1,1,1,2-Tetrachloroethane	4.8	0.50	"	5.00		95.1	70-130			
m,p-Xylene	8.8	0.50	"	10.0		87.9	70-130			
o-Xylene	4.6	0.50	"	5.00		92.3	70-130			
1,1,2,2-Tetrachloroethane	5.8	0.50	"	5.00		116	70-130			
<i>Surrogate: Dibromofluoromethane</i>	2.62		"	2.50		105	75-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.72		"	2.50		109	75-125			
<i>Surrogate: Toluene-d8</i>	2.68		"	2.50		107	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.81		"	2.50		113	75-125			

SCS Engineers - Long Beach  
3900 Kilroy Airport Way, Suite 100  
Long Beach, CA 90806-6816

Project: SCS102020-SB2  
Project Number: 4101 Long Beach Blvd  
Project Manager: Justin Rauzon

Reported:  
27-Oct-20 12:36

### Notes and Definitions

LCC      Leak Check Compound  
ND      Analyte NOT DETECTED at or above the reporting limit  
MDL      Method Detection Limit  
%REC      Percent Recovery  
RPD      Relative Percent Difference

All soil results are reported in wet weight.

### Appendix

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

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

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

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

Lab Client and Project Information			
Lab Client/Consultant: <u>SCS Engineers</u>	Project Name / #: <u>2007 01220209.0012</u>		
Lab Client Project Manager: <u>Justin Rawton</u>	Project Location: <u>4101 Long Beach Blvd</u>		
Lab Client Address: <u>3900 Kilroy Airport Way Suite 100</u>	Report E-Mail(s): <u>jrawton@scsengineers.com</u> <u>edesa@scsengineers.com</u>		
Lab Client City, State, Zip: <u>Long Beach CA 90806</u>			
Phone Number: <u>(562)426-9544</u>			
Reporting Requirements	Turnaround Time	Sampler Information	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____	<input checked="" type="checkbox"/> Standard (7 days for preliminary report, 10 days for final report) <input type="checkbox"/> Rush (specify): _____	Sampler(s): <u>Bobby Stangl</u> Signature: <u>[Signature]</u> Date: <u>10/20/2020</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>10/20/2020</u>	Control #: <u>200760-01</u>
H&P Project # <u>SCS102020-5B2</u>	
Lab Work Order # <u>E010068</u>	
Sample Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: _____	Temp: _____
Outside Lab: _____	
Receipt Notes/Tracking #: _____	
Lab PM Initials: _____	

Additional Instructions to Laboratory:																							
* Preferred VOC units (please choose one):																							
<input type="checkbox"/> µg/L <input type="checkbox"/> µg/m <sup>3</sup> <input type="checkbox"/> ppbv <input type="checkbox"/> ppmv																							
SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List <input checked="" type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	VOCs Short List / Project List <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Oxygenates <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	Naphthalene <input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	TPHv as Gas <input type="checkbox"/> 8260SVm <input type="checkbox"/> TO-15m	Aromatic/Aliphatic Fractions <input type="checkbox"/> 8260SVm <input type="checkbox"/> TO-15m	Leak Check Compound <input checked="" type="checkbox"/> DFA <input type="checkbox"/> IPA <input type="checkbox"/> He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 <input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2							
SV1-5		10/20/20	1011	SV	6 Syringe	305/338		X						X									
SV2-5			919			332/339		X						X									
SV3-5			955			247/340		X						X									
SV4-5			101			332/339		X						X									
SV5-5			1030			247/340		X						X									
SV7-5			1113			305/338		X						X									
SV6-6			1213			247/340		X						X									
SV8-4			1230			305/338		X						X									
SV8-4 REP			1245			332/339		X						X									
SV9-6			1307			305/338		X						X									
Approved/Relinquished by: <u>[Signature]</u>	Company: <u>SCS</u>	Date: <u>10/20/2020</u>	Time: _____	Received by: <u>[Signature]</u>	Company: <u>H&amp;P</u>	Date: <u>10/20/2020</u>	Time: <u>1415</u>																
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

**Lab Client and Project Information**

Lab Client/Consultant: <u>SCS Engineers</u>	Project Name / #: <u>01220209-00 T2</u>
Lab Client Project Manager: <u>Justin Rauzon</u>	Project Location: <u>4101 Long Beach Blvd</u>
Lab Client Address: <u>3900 Kilroy Airport Way, suite 100</u>	Report E-Mail(s): <u>jravzon@scsengineers.com</u> <u>edescorza@scsengineers.com</u>
Lab Client City, State, Zip: <u>Long Beach CA 90806</u>	
Phone Number: <u>(562) 426-9544</u>	

**Sample Receipt (Lab Use Only)**

Date Rec'd: <u>10/20/2020</u>	Control #: <u>200760.01</u>
H&P Project #	<u>SCS 102020-582</u>
Lab Work Order #	<u>E010068</u>
Sample Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

**Reporting Requirements**

**Turnaround Time**

**Sampler Information**

<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	<input checked="" type="checkbox"/> <b>Standard</b> (7 days for preliminary report, 10 days for final report)	Sampler(s): <u>Bobby Stansel</u>
<input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____	<input type="checkbox"/> <b>Rush</b> (specify): _____	Signature: <u>[Signature]</u>
<input type="checkbox"/> CA Geotracker Global ID: _____		Date: _____

**Additional Instructions to Laboratory:**

\* Preferred VOC units (please choose one):

- µg/L  µg/m<sup>3</sup>  ppbv  ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945
								<input checked="" type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15							
<u>SV10-5</u>		<u>10/20/20</u>	<u>1333</u>	<u>SV</u>	<u>67 Syringe</u>	<u>249/340</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>[Large Signature]</u>																		

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>SCS</u>	Date: <u>10/20/2020</u>	Time:	Received by: <u>[Signature]</u>	Company: <u>H&amp;P</u>	Date: <u>10/20/2020</u>	Time: <u>1415</u>
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

## Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS102020-SB2 Date: 10/20/2020  
 Site Address: 4101 Long Beach Blvd Page: 1 of 2  
 Consultant: SCS Engineers H&P Rep(s): B. Stangl  
 Consultant Rep(s): Edward DeSouza

Reviewed: EC  
Scanned: Thomas

<b>Equipment Info</b>	<b>Purge Volume Information</b>	<b>Leak Check Compound</b>	<b>Resample Key:</b>
Inline Gauge ID#: <u>T30</u>	PV Amount: 3PV PV Includes: <input checked="" type="checkbox"/> Tubing	<input checked="" type="checkbox"/> 1,1-DFA	RS = Resample
Pump ID#: <u>—</u>	<input type="checkbox"/> Sand 40%	A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.	RD = for Dilution
	<input checked="" type="checkbox"/> Dry Bent 50%	<input type="checkbox"/> 1,1,1,2-TFA	RL = for LCC fail
		<input type="checkbox"/> IPA	
		<input type="checkbox"/> 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 <input checked="" type="checkbox"/> Hg <input type="checkbox"/> H <sub>2</sub> O	
1	SV1-5	305/338	100	902	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	4
2	SV2-5	332/339	100	919	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	0
3	SV3-5	297/340	100	955	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	6
4	SV1-5 RL	305/338	100	1011	5	7	1/8	12	0.75	6	0.75	✓	✓	296	200	—	2200	4
5	SV4-5	332/339	100	1030	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	2
6	SV5-5	297/340	100	1051	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	1
7	SV7-5	305/338	100	1113	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	1
8	SV6-C	332/339	100	1156	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	5
9	SV6-C RS	297/340	100	1213	5	7	1/8	12	0.75	6	0.75	✓	✓	289	—	—	2200	5
10	SV8-4	305/338	100	1230	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	1
11	SV8-4 REP	332/339	100	1246	5	7	1/8	12	0.75	6	0.75	✓	✓	289	—	—	2200	1
12	SV9-C	305/338	100	1307	5	7	1/8	12	0.75	6	0.75	✓	✓	189	200	—	2200	0

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

## Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: SCS102020-SB2 Date: 10/20/2020  
 Site Address: 4101 Long Beach Blvd Page: 2 of 2  
 Consultant: SCS Engineers H&P Rep(s): B. Stangl  
 Consultant Rep(s): Edward DeSouza

Reviewed: EC  
Scanned: Mores

<b>Equipment Info</b>	<b>Purge Volume Information</b>	<b>Leak Check Compound</b>	<b>Resample Key:</b>
Inline Gauge ID#: <u>T30</u> Pump ID#: <u>-</u>	PV Amount: 3PV PV Includes: <input checked="" type="checkbox"/> Tubing <input checked="" type="checkbox"/> Sand 40% <input checked="" type="checkbox"/> Dry Bent 50%	<input checked="" type="checkbox"/> 1,1-DFA <input type="checkbox"/> 1,1,1,2-TFA <input type="checkbox"/> IPA <input type="checkbox"/> Other:	RS = Resample RD = for Dilution RL = for LCC fail
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.			

Sample Information				Probe Specs							Purge & Collection Information						
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	Probe Vac <input checked="" type="checkbox"/> Hg <input type="checkbox"/> H <sub>2</sub> O
1	<u>SV10-5</u>	<u>207/340</u>	<u>100</u>	<u>1337</u>	<u>5</u>	<u>7</u>	<u>1/8</u>	<u>12</u>	<u>0.75</u>	<u>6</u>	<u>0.75</u>	<u>✓</u>	<u>✓</u>	<u>200</u>	<u>-</u>	<u>200</u>	<u>3</u>
2																	
3																	
4																	
5																	
6																	
7																	
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11																	
12																	

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